









29184 War

## MORTUARY EXPERIENCE

OF

## The Mutual Benefit

LIFE INSURANCE COMPANY,

Newark, N. J.

1845-1879.



HG 9M988m 1880

NEWARK, N. J., June 1, 1879.

BLOOMFIELD J. MILLER, Esq.,

Actuary Mutual Benefit Life Insurance Company:

SIR—You are hereby requested to collate the Mortuary Statistics of the Company in a suitable form for publication. I am of the opinion that the results of the Company's experience during the past thirty-four years cannot fail to throw much light upon matters of almost vital consequence to the safe conduct of the business; and I would particularly call your attention to the following points:

1st. It is claimed by many that Life Insurance Companies are exposed to a special risk arising from the discontinuance or surrender of Policies at the option of the insured, it being asserted that the lives having the highest degree of vitality are in the main those which withdraw from the Company. Does it appear that this Company has suffered from this cause; and if so, to what extent?

- 2d. Does the Company's experience confirm the prevailing opinion that the issue of "Term" Policies is unprofitable and injudicious?
- 3d. What was the result of the Company's experience and practice on "war risks," during the late war?

I desire special reference paid to the above points; but I also wish the Company's experience presented in such other form as may seem to you best for examination and general review.

Yours truly,

LEWIS C. GROVER, President.



NEWARK, N. J., October 1, 1880.

LEWIS C. GROVER, Esq.,

President of The Mutual Benefit Life Insurance Company:

SIR—In pursuance of your Letter of Instructions, dated June 1, 1879, I have the honor to submit the following results of my examination into the Company's Mortuary Experience from the date of its organization to the close of the calendar year 1879.

The accompanying tables and charts will be found to require but little explanation; but in order that their value should be fully appreciated, it is important that the system and principles which have been adopted in the investigation should be clearly stated

The facts in regard to each policy that had ever paid a premium were written upon a separate card, of which the following is a sample:

| No. of Policy, 22,043. | Am<br>Pe | ount of olicy, | <b>\$5,000</b> |
|------------------------|----------|----------------|----------------|
| In 1867 reduced to     | \$1,500  | o.             |                |
|                        | DAY.     | MONTH.         | YEAR.          |
| Date of Issue          |          |                |                |
| Date of Exit           | 26       | 10             | 1869           |
| Age at Issue           |          |                | 28             |
| Age January 1, 1865    |          |                | 29             |
| Mode of Exit           | ,        |                | Death.         |

Where more than one policy had been issued upon the same life, the respective cards were gathered together and confined by an elastic band. The card representing the original policy was placed on top, and on the back of each subsequent card the numbers of all preceding issues were written in proper order. This precaution made it easy to avoid errors that were likely to arise from the accidental separation of the cards. Each of these groups of cards was treated as one policy, issued at the original date; but the variation in the amount insured from year to year was accurately noted in presenting the Company's Loss Experience.

The cards were arranged according to the years of issue of the original policies, and the experience on each group was made up for each succeeding calendar year. Where a life was not exposed to risk for the entire year, it was counted at its fractional value. During the first year of insurance the duration of the risk averages a little under half a year; so that the lives actually exposed represent a little less than half as many full years of life.

With the exception of a few policies issued at the inception of the Company, no risks have been taken upon female lives; and no risks have been taken except on presumably healthy lives.

The ability of a Life Insurance Company to fulfil its policy obligations depends chiefly upon the adequacy of its Premium Rates and the maintenance of a proper Reserve Fund. Both of these matters are governed primarily by the Table of Mortality which may be adopted as a standard. The more nearly the Standard Table conforms to the Company's actual experience, after the elimination of any specially disturbing factors, the greater will be the reliance that may be placed upon it as a safe index of the future death-rate. An established Life Insurance Company should be able to carry out all existing contracts, even if the issue of all new Policies should be entirely suspended; and it is therefore important that the Standard Table should indicate as high a rate of mortality as may be expected even under the most unfavorable circumstances. The usual theory is, that the Standard Table should give the true death-rate at all ages for unselected lives belonging to the class usually seeking insurance, and that as the Company

can, by the rejection of all undesirable candidates, be sure that any discrepancy between the assumed and actual death-rates will be in its favor, the variation can be adjusted in the yearly dividends. There are, however, as you say, some who hold that, owing to the constant withdrawal from the Company of presumably healthy lives, the death-rate among old members will gradually exceed the normal rate among unselected lives; and that the Company should reserve the profits arising from the original favorable selection, to meet the losses arising from the subsequent adverse selection.

As directed, I have paid special attention to the Evidences of Selection, and present the following facts for your consideration.

Table II. shows the Company's General Experience, according to age of the insured at time of exposure to risk.

Table IV. gives the experience during the first and second years of membership only, during which period the benefits of favorable selection are the most apparent.

Table V. gives the experience, excluding the first fifteen years of membership. If adverse selection is to be feared at all, we should look for strong indications of it in this division of the Company's Experience, covering, as it does, 58,896 years of life and 1,356 deaths, the years of membership ranging from the 16th to the 35th, inclusive.

Table VI. shows the death-rate for each age according to each of the foregoing observations, and also the death-rate according to the most approved Tables of Mortality.

The Company's Experience at separate ages exhibits marked irregularities, owing to the small number of lives under observation, and a careful adjustment is therefore necessary to a proper understanding of its import. The rates given in Table VI. are the result of such an adjustment. They may be relied upon as a faithful expression of the Company's Experience.

The formula made use of in securing a satisfactory result was

$$\frac{dx}{lx} = a + bq^x$$

where x signifies the age at exposure, and a, b, and q are constants suited to the occasion.

In the adjustment of Table II., a = .005829, b = .000034487, and the logarithm of q = .045

In the adjustment of Table IV. the values were:

$$a = .005152$$
,  $b = .000020537$ , logarithm of  $q = .046$ .

In the adjustment of Table V. the values were:

$$a = .006740$$
,  $b = .000034982$ ; logarithm of  $q = .045$ .

Chart A presents to the eye what Table VI. presents to the mind, and gives the readiest means of comparing the various observations.

It will be noticed that each of the curves representing the Company's Experience is more nearly in accord with the line representing the American Experience Table than with either the Old or New Actuaries' Table; and the correspondence is indeed so close, that if we were to frame a Standard Table from our own experience, we would not be justified in any material variation from the American Table. I have, therefore, adopted the American Table as the best available index of the death-rate upon unselected American lives of the class usually seeking insurance.

After the elimination of disturbing factors, the line representing the Company's Experience should be nearly parallel with the standard line and within a reasonable distance of it, otherwise the correctness of the Standard will be open to suspicion. The lines representing the Company's Experience on both old and young business are so nearly parallel with the Standard line that they afford a strong confirmation of its accuracy. The death-rate during the first two years of membership is, of course, much below the Standard; but the death-rate on old business, where the benefits of selection must have nearly disappeared, corresponds so closely with the American Experience, that it seems reasonable to believe that if all benefits of selection

had vanished, the Company's Experience would have been practically identical with the Standard.

This argument is based upon the assumption that there is no element of adverse selection in the business. The assumption is not altogether warranted; but I expect to show hereafter that the influence of adverse selection is not sufficiently strong or constant to invalidate the conclusion. The line representing the Company's General Experience is disproportionately low at the younger ages; but this is plainly owing to the fact that at those ages the experience is limited to the earlier years of membership.

By comparing the actual deaths during different years of membership, with the computed number, according to the American Experience Table, much light is thrown upon the question of selection. Table VII. and Chart B show that during the first year of insurance the actual deaths are but 60 per cent. of the computed deaths.

The ratio rapidly increases to 86 per cent., and continues at that point from the fourth to the fifteenth year of membership. The ratio then rises by successive steps until in the twenty-fourth year it reaches 104 per cent., which is the maximum. The ratio then diminishes until in the thirty-fifth year it is but 76 per cent.

If the ratio rose gradually to 100 per cent., and then continued at that point, we could safely conclude that there was no element of adverse selection, but that the increase was simply occasioned by the dying out of the original favorable selection, owing to the simple lapse of time. Such a result would be expected even if there were no voluntary withdrawals from the Company. Two elements enter into the original selection. The physical examination insures the freedom from developed disease tending to speedy death, and the rejection of all applicants whose antecedents are unfavorable to longevity exerts another and more lasting influence upon the death-rate. The physical examination has the most powerful influence while it lasts, but of necessity dies out in a few years. Even the inherited tendency to longevity

must die out when the older ages of life are reached; and it would not be at all a cause for surprise, if after the lapse of twenty-five years all of the benefits of the original selection were found to have vanished. It is probable, however, that the observed increase in the ratio of actual to computed deaths during the first twenty-five years is partly owing to an adverse selection caused by the withdrawal of risks of more than an average vitality; but admitting this to be the case, we have still to account for the reappearance of a favorable selection during the later years of membership:

This fresh accession of vitality cannot be attributed to chance, as a similar phenomenon is apparent in the experience of The Mutual Life Insurance Company of New York, and in the combined experience of the English Companies, upon which the New Actuaries' Table of Mortality is based. The falling off in the ratio of actual to computed deaths noticeable in the business, can only be attributed to a tendency to withdraw from the Company on the part of members who have passed the productive period of life without having accumulated sufficient to provide for their support in their old age. It is not unnatural to expect a lower degree of vitality among the old that have worn themselves out in the struggle of life, and find themselves at the end of their resources, than in the more successful class that have achieved a competency and can pursue the journey of life free from exposure to the mental and physical ills which follow in the train of hopeless poverty.

The experience of the English Companies shows that the withdrawals at the younger ages of life tend strongly to raise the death-rate even in the later years of membership; and there is no doubt that voluntary withdrawals at all ages exert an unfavorable influence during the earlier years of membership, and that withdrawals at the younger ages are injurious to the Company even in the later years of membership. In support of this statement I give the following table, based upon the experience of the English Companies, and extracted from a paper by Mr. T. B. Sprague in the Journal of the Institute of Actuaries for April, 1870.

| -                |  |   |   |   |   |                       |   |  |  |  |   |
|------------------|--|---|---|---|---|-----------------------|---|--|--|--|---|
| PRESENT<br>AGES. | YEARS OF<br>INSURANCE.   | Number at<br>Risk.  |   | Probable<br>Deaths.   |   |                       | YEARS OF<br>INSURANCE.  | Number at<br>Risk.   |  | PROBABLE DEATHS.   | PER-<br>CENTAGE.  |
| 2I to 25         | 0<br>1<br>2, 3<br>4<br>5, 6<br>7–10  | 8,814.<br>12,857.5<br>13,698.5<br>3,124.5<br>2,858.5<br>1,217.  | 24<br>76<br>97<br>29<br>31                                      | 66.97<br>97.89<br>104.57<br>23.89<br>21.80<br>9.34  | 35.8<br>77.6<br>92.8<br>121.4<br>142.2<br>160.6                         | 61<br>to<br>65        | 0<br>1<br>2<br>3-5<br>6-11<br>12-15<br>16-21<br>22-25<br>26-31          | 759.5<br>1,652.5<br>1,795.5<br>5,897.<br>13,168.5<br>9,142.5<br>11,720.5<br>6,698.<br>6,705.                         | 7<br>38<br>48<br>215<br>495<br>354<br>463<br>257<br>258                            | 28.24<br>61.73<br>66.53<br>219.64<br>493.24<br>343.02<br>440.95<br>252.17<br>253.74                                | 24.8<br>61.6<br>72.1<br>97.9<br>100.4<br>103.2<br>105.0<br>101.9                |
| 31 to 35         | 0<br>I<br>2<br>3<br>4-7<br>8-II<br>I2-20                                     | 12,510.<br>23,480.5<br>21,583.5<br>19,333.5<br>56,488.5<br>24,229.5<br>5,607.5                            | 66<br>141<br>164<br>169<br>505<br>237<br>60                     | 111.58<br>209.50<br>192.49<br>172.56<br>505.28<br>217.86<br>50.82                               | 59.2<br>67.3<br>85.2<br>97.9<br>99.9<br>108.8<br>118.1                  | 71                    | 32-end.  . o I 2, 3 4, 5  | 80.<br>188.<br>420.<br>573.5   | 1 123<br>1 12<br>30<br>45  | 6.23<br>14.98<br>33.38<br>45.19  | 98.6<br>16.1<br>80.1<br>89.9<br>99.6  |
| 41 to {          | 0<br>1<br>2<br>3<br>4-7<br>8-12<br>13-15<br>16-19                            | 6,925.<br>13,904.<br>13,619.5<br>13,172.<br>49,349.5<br>48,833.5<br>18,948.5<br>12,863.5                  | 29<br>110<br>138<br>141<br>556<br>581<br>229<br>182             | 78.13<br>156.85<br>153.29<br>148.42<br>557.34<br>552.51<br>215.23<br>147.08                     | 37.1<br>70.1<br>90.0<br>95.0<br>99.8<br>105.2<br>106.4                  | to { 75               | 6–9<br>10–17<br>18–21<br>22–32<br>33–end.                               |  | 137<br>397<br>229<br>499<br>198  | 135.27<br>376.75<br>217.02<br>484.80<br>216.78   | 101.3<br>105.4<br>105.5<br>102.9<br>91.3  |
| 51<br>to<br>55   | 20-30<br>0<br>1<br>2<br>3<br>4-6<br>7-10<br>11-14<br>15-18<br>19-22<br>23-40 | 2,832.<br>5,896.<br>5,959.<br>6,015.<br>18,004.5<br>23,104.5<br>21,280.<br>17,338.<br>12,765.5<br>10,834. | 23<br>56<br>92<br>104<br>323<br>428<br>430<br>354<br>271<br>221 | 53.53<br>111.55<br>112.65<br>114.07<br>342.08<br>439.17<br>404.35<br>330.73<br>244.61<br>210.52 | 43.0<br>50.2<br>81.7<br>91.2<br>94.4<br>97.5<br>106.3<br>107.0<br>110.8 | Summary for all Ages. | 0<br>1<br>2<br>3-5<br>6-10<br>11-15<br>16-20<br>21-25<br>26-30<br>31-63 | 63,644.5<br>116,565.<br>103,312.5<br>252,291.5<br>288,416.<br>170,529.<br>96,560.<br>52,939.5<br>26,232.5<br>18,468. | 290<br>891<br>1,028<br>3,177<br>4,515<br>3,589<br>2,614<br>1,877<br>1,210<br>1,250 | 687.91<br>1,310.63<br>1,208.71<br>3,213.78<br>4,389.88<br>3,347.24<br>2,514.69<br>1,818.28<br>1,180.11<br>1,228.77 | 42.2<br>68.0<br>85.0<br>98.86<br>102.85<br>107.22<br>103.95<br>102.53<br>101.73 |

Note.—" Probable Deaths" computed according to "Old" Actuaries Table.

It will be seen that the English Companies have suffered from withdrawals to a far greater extent than has The Mutual Benefit; for within the first ten years of membership the total deaths rise to 103 per cent. of the computed number by the Old Actuaries' Table of Mortality, and that they continue above the Standard ever after. From the 11th to the 15th year of membership, the actual deaths are 7 per cent. above the Standard, and would be found considerably more above the computed number according to the American Experience Table.

The ratio is diminished during the later years of membership, but is still far higher than according to The Mutual Benefit's Experience.

Our experience is not large enough to admit of so minute division as that of the English Companies; but in order to see if the falling off in the ratio during the later years of membership in our Company followed the same general law, I have divided the last ten years of membership (26th to 35th) into young and old lives, all ages above age 60 being included in the latter class.

I find that in the younger class the actual deaths were 115, or 106 per cent. of the computed number 108. In the older class the actual deaths were 325, or 89 per cent. of the computed number 364. This supports the general rule above stated, that withdrawals at the younger ages effect an adverse selection even during the later years of membership.

It is, however, important to note that the injurious effect of withdrawals has been so slight in our experience that it would hardly have been suspected if it had not been for the experience of the English Companies. I think it not too much to say, that what slight traces of adverse selection are noticeable at the younger ages in our experience are met and neutralized by a favorable selection from the same cause at the higher ages.

There seems to be no reason to apprehend any evil results in the future from adverse selection, so long as The Mutual Benefit retains the confidence of its members. I have no doubt, however, that in a Company whose solvency has become impaired, the adverse selection would be far more noticeable, owing to the fact that the best lives would be specially tempted

to transfer their insurance to other Companies; while the worst lives would have no such resource open to them, and would have to cling to their Policies, notwithstanding their doubts as to the stability of the Company.

I have said that the traces of adverse selection in The Mutual Benefit are so slight as to be hardly noticeable. Tables IX. and XI. will strongly confirm this opinion. In Table IX. the Company's Experience is separated into different groups in accordance with the years of issue of its Policies. It will be noticed that among the lives insured between the years 1845 and 1854, inclusive, there have occurred to date 1,838 deaths, while the computed deaths, according to the American Experience Table, are 1,871. Among the lives insured between the years 1855 and 1864, the actual deaths to date have been 2,043, whereas the computed deaths are 2,411. In the first case the percentage of Actual to Probable Deaths is 98.2 per cent. In the second case 84.7 per cent. If there was any important element of adverse selection in the business, these percentages could hardly fail to be much higher. The rather high rate noticed in the first group may be attributed to a somewhat unfavorable experience in the early years of the Company's history (See Table XIV.), instead of to an adverse selection in later years.

Table X. shows the Company's Experience upon Paid-up Policies for reduced amounts allowed as surrender values for discontinued Policies. If it were true that members discontinuing their insurance have a more than average degree of vitality, we should expect to find the losses occurring under Paid-up Policies correspondingly light when compared with the Company's General Experience. At first sight this would seem to be the case, for the total number of deaths occurring under this class of risks appears to be but 70.5 per cent. of the computed number. It should, however, be borne in mind, that many of the Company's Policies have become converted by non-payment of premiums into Paid-up Insurance for reduced amounts without the surrender of the original, or the issue of new Policies. It is not unlikely that in many of these cases the Policies have become mislaid or have been regarded

as valueless, and deaths occurring under them have not been reported to the Company. It is even likely that where new Paid-up Policies for small amounts have been issued in exchange for Surrendered Policies on which but few premiums have been paid, that some deaths have occurred which have not been reported. The smaller the amount of the Paid-up Policy and the fewer the number of premiums which have been paid on the original Policy, the greater is the probabilty of the Company not being notified of the death.

In Table XI. will be found the Company's Experience on Paid-up Insurances, excluding all cases where less than three premiums have been paid on the original Policy. This division omits those cases where there is the greatest probability of a death occurring without its being reported to the Company. We now find that the Actual Deaths are 273, against 333 Probable Deaths, or 82 per cent. This rate differs but little from the Company's General Experience for the same years of membership (4th to 35th), the Actual Deaths being 5,653, against 6,441 Probable Deaths, or 88 per cent.

The Paid-up Experience is more favorable by 6 per cent., but the difference is no more than might result from the occasional failure of the parties interested to report a loss to the Company; and in excluding that part of the Paid-up Experience which would be most likely to cover such cases of oversight, there is no reason to suppose that the disturbing cause would be entirely eliminated.

In making up the statistics for Paid-up Policies, all insurances of less than \$100 were excluded, as such cases were regarded as specially liable to become claims without being reported to the Company.

A careful examination of Table XI. will not justify the conclusion that the average vitality among members surrendering their Policies for Paid-up Insurances of reduced amounts, is appreciably higher than among those members who have kept their insurance in force for the full amounts.

Since it does not appear that the death-rate has been appreciably higher than the Standard, even where the conditions of the business offer the greatest warrant for such an expectation, I think it safe to conclude that the Company's Experience has not been influenced by adverse selection to an extent calling for any special attention or precautionary measures.

Tables XII. and XIII. show the Company's Experience upon Term Policies. These Policies were issued for terms ranging from one to seven years. The death-rate has been considerably above the Standard, and compares very unfavorably with the Company's Experience on ordinary Policies. The facts offer abundant reason for the Company's action, some years since, discontinuing the issue of Policies of this class. In compiling the statistics on Term Policies as above given, all cases involving a special war risk were excluded. This was a necessary precaution, for during the late war a considerable number of risks were taken upon parties entering into active service, and in most cases the Policies were issued for three years at regular term rates, supplemented by an extra annual premium equal to 5 per cent. of the amount of the Policy. The deaths under this class of risks were naturally much in excess of the computed number; and as this excess had no direct connection with the fact that the Policies were issued on the Term Plan, but arose from other and special causes, it was necessary to exclude these cases from statistics bearing simply upon Term Policies as such.

The number of deaths reported under Term Policies issued in connection with Special War Permits was 39. The probable number by the American Experience Table was 8. The ratio of Actual to Probable Deaths was 4.87.

The extra premium of 5 per cent. of the amount insured was on the average equal to about five times the tabular cost of insurance, and the Company was therefore prepared for

about six times the tabular death-rate. The close correspondence betweeen the extra premium charged and the ascertained value of the extra risk, affords gratifying proof of the correctness of the Company's practice in these cases.

The tables not heretofore referred to require but little comment.

Table I. is elementary, and gives the Company's Experience at each age, subdivided into years of membership. It is the basis of most of the subsequent tables, and is in the most convenient form for general actuarial use.

This table, however, has one interesting feature for the general observer. If read downwards diagonally to the right, it gives the yearly record of the same group of lives, and approximately the number of risks terminated from year to year, by causes other than death.

For example, under age 40, 2d year of membership, the years of life are 2,018 and the deaths are 9. Under age 41, 3d year of membership, covering the same group of lives, the years of life are but 1,777, showing that during the 2d year of membership about 232 risks were terminated from causes other than death.

Tables III. and VIII. are merely summaries of Tables II. and VII., presenting the same facts in five-year groups. In these groups the unadjusted ratios will be found substantially in accord with the adjusted experience as shown by Charts A and B.

Table XV. has no special scientific value, but is not without interest as indicating the general correspondence between the Company's Experience and the American Experience Table, and also as affording some indication of the comparative healthfulness of different years.

Trusting that you will find the points referred to in your letter satisfactorily covered by the foregoing observations and accompanying Charts and Tables, I am,

Very respectfully, yours,

BLOOMFIELD J. MILLER,

Actuary.

TABLE I.

Mortuary Experience of The Mutual Benefit Life Insurance Company from 1845 to 1879 inclusive, showing YEARS OF LIFE and ACTUAL DEATHS at each age, for each year of Membership.

|                        |                   | CURRENT AGE OF INSURED. |                   |         |                   |         |                     |         |                      |         |  |  |  |  |
|------------------------|-------------------|-------------------------|-------------------|---------|-------------------|---------|---------------------|---------|----------------------|---------|--|--|--|--|
| YEAR OF<br>MEMBER-     | 11                |                         | 12                | 2       | 13                |         | 14                  | -       | 1 5                  | 5       |  |  |  |  |
| SHIP.                  | YEARS OF<br>LIFE. | DEATHS.                 | Years of<br>Life. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. | YEARS OF<br>LIFE.   | DEATHS. | YEARS OF<br>LIFE.    | DEATHS. |  |  |  |  |
| 1st<br>2d<br>3d<br>4th |                   | • •                     |                   |         | I.9<br>I.0        | ••      | 21.9<br>16.8<br>1.0 |         | 21.6<br>33·3<br>15.0 | I       |  |  |  |  |

|  |                              | CURRENT AGE OF INSURED. |                                      |            |   |         |  |         |   |                      |  |  |  |
|--|------------------------------|-------------------------|--------------------------------------|------------|---|---------|--|---------|---|----------------------|--|--|--|
| YEAR OF<br>MEMBER-                                 | 16                           | 3                       | 17                                   |            | 18  | 3       | 19   | )       | 20  | )                    |  |  |  |
| SHIP.  | YEARS OF<br>LIFE.            | DEATHS.                 | YEARS OF<br>LIFE.                    | DEATHS.    | Years of<br>Life.                             | DEATHS. | YEARS OF<br>LIFE.                                      | DEATHS. | Years of<br>Life.   | DEATHS.              |  |  |  |
| 1st<br>2d<br>3d<br>4th<br>5th<br>6th<br>7th<br>8th | 32.0<br>49.0<br>28.5<br>13.8 |                         | 63.8<br>67.8<br>38.5<br>25.0<br>13.0 | <br>I<br>I | 97.9<br>135.0<br>58.1<br>31.2<br>23.2<br>11.5 | I       | 146.4<br>196.9<br>112.1<br>55.2<br>28.5<br>20.4<br>9.9 | I 2 I   | 271.1<br>300.7<br>155.2<br>100.7<br>50.8<br>24.3<br>18.7<br>9.0 | 2<br>4<br>4<br>1<br> |  |  |  |

## TABLE I.—(Continued).

|                             | CURRENT AGE OF INSURED. |         |                   |         |                   |         |                   |         |                   |         |  |
|-----------------------------|-------------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|--|
| YEAR OF<br>MEMBER-<br>SHIP. | 21                      |         | 22                | 2       | 23                | 3       | 24                | ŀ       | 25                | 5       |  |
| SHIF.                       | YEARS OF<br>LIFE.       | Deaths. | YEARS OF<br>LIFE. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. | Years of<br>Life. | DEATHS. |  |
| ıst                         | 421.6                   | 5       | 582.2             | 4       | 745.4             | 4       | 869.3             | , 4     | 970.5             | 8       |  |
| 2d                          | 589.1                   | 5       | 842.2             | 5       | 1,120.6           | 10      | 1,410.7           | 2       | 1,625.8           | 15      |  |
| 3d                          | 249.8                   | 5       | 486.5             | I       | 715.3             | 6       | 919.5             | II      | 1,187.5           | 6       |  |
| 4th                         | 137.1                   |         | 220.6             | 2       | 440.8             | 2       | 644.5             | 5       | 823.8             | 6       |  |
| 5th                         | 97.0                    |         | 127.0             | I       | 199.3             |         | 409.3             | I       | 576.4             | 3       |  |
| 6th                         | 48.8                    | I       | 84.8              | I       | 111.7             | 3       | 184.4             |         | 375.5             | I       |  |
| 7th                         | 21.1                    | I       | 45.7              |         | 79.2              |         | 96.3              | I       | 165.7             | 2       |  |
| 8th                         | 17.1                    |         | 19.0              | I       | 40.7              |         | 70.4              |         | 86.5              |         |  |
| 9th                         | 9.0                     |         | 15.0              |         | 15.9              |         | 37.6              |         | 62.7              |         |  |
| 10th                        |                         |         | 8.7               |         | 14.2              |         | 17.0              |         | 31.0              |         |  |
| 11th                        |                         |         |                   |         | 8.0               |         | 13.0              |         | 16.0              |         |  |
| 12th                        |                         |         |                   |         |                   |         | 7.0               |         | 13.0              |         |  |
| 13th                        |                         |         |                   |         |                   |         |                   |         | 7.0               |         |  |

|                             |                   |         | CURRENT AGE OF INSURED. |         |                |         |                   |         |                   |         |  |  |
|-----------------------------|-------------------|---------|-------------------------|---------|----------------|---------|-------------------|---------|-------------------|---------|--|--|
| YEAR OF<br>MEMBER-<br>SHIP. | 26                | 3       | . 27                    | 7       | 28             | 3       | 29                |         | 30                | )       |  |  |
| SHIF.                       | YEARS OF<br>LIFE. | DEATHS. | Years of<br>Life.       | DEATHS. | YEARS OF LIFE. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. | Years of<br>Life. | DEATHS. |  |  |
|                             |                   |         |                         | 1       |                |         | 0.5               |         |                   |         |  |  |
| Ist                         | 1,131.7           | 7       | 1,197.5                 | 12      | I,22I.I        | 4       | 1,286.7           | 7       | <b>1</b> ,418.1   | 2       |  |  |
| 2d                          | 1,744.2           | 15      | 2,061.5                 | 10      | 2,200.7        | 13      | 2,217.4           | 9       | 2,353.9           | 12      |  |  |
| 3d                          | 1,379.3           | 12      | 1,483.5                 | 5       | 1,766,2        | 19      | 1,918.8           | 12      | 1,914.0           | 16      |  |  |
| 4th                         | 1,061.6           | 14      | 1,250.6                 | 12      | 1,362.4        | 7       | 1,601.8           | II      | 1,738.1           | 8       |  |  |
| 5th                         | 753.0             | 6       | 967.8                   | .8      | 1,140.2        | 8       | 1,236.8           | II      | 1,446.7           | 6       |  |  |
| 6th                         | 518.4             | 6       | 676.3                   | 3       | 887.4          | 3       | 1,018.8           | II      | 1,115.8           | 6       |  |  |
| 7th                         | 342.0             | 2       | 469.8                   | 2       | 603.6          | 4       | 810.5             | 6       | 921.5             | II      |  |  |
| 8th                         | 151.6             | 2       | 304.8                   | 3       | 426.1          | I       | 551.9             | 4       | 756.3             | 4       |  |  |
| 9th                         | 78.7              |         | 139.3                   | 2       | 278.1          | I       | 389.2             | I       | 510.3             | 2       |  |  |
| IOth                        | 59.5              |         | 63.8                    |         | 128.4          | 3       | 252.1             | I       | 355.7             | 2       |  |  |
| 11th                        | 30.9              | • •     | 57.1                    | I       | 55.4           |         | 115.2             | 2       | 226.9             |         |  |  |
| 12th                        | 15.0              |         | 26.1                    |         | 51.0           |         | 48.9              |         | 104.7             | 2       |  |  |
| 13th                        | 12.0              | • •     | 12.0                    |         | 18.0           |         | 41.7              | I       | 38.5              |         |  |  |
| 14th                        | 6.0               |         | 9.0                     |         | 11.0           |         | 15.0              |         | 34.5              | 2       |  |  |
| 15th                        |                   | • • • • | 5.9                     |         | 7.8            |         | 10.0              |         | 11.0              |         |  |  |
| 16th                        |                   | : •     |                         |         | 6.0            |         | 5.0               |         | 6.0               |         |  |  |
| 17th                        | • • • •           |         |                         |         |                |         | 4.0               |         | 2.0               |         |  |  |
| 18th                        |                   |         |                         |         |                |         |                   |         | 4.0               |         |  |  |

TABLE I.—(Continued).

|                    | 1                | *       |                   | CURI    | RENT AGE          | OF INSU  | JRED.             |         |                  |         |
|--------------------|------------------|---------|-------------------|---------|-------------------|----------|-------------------|---------|------------------|---------|
| YEAR OF<br>MEMBER- | 0.4              |         | 32                |         | 33                | 3        | 34                | ŀ       | 35               | 5       |
| SHIP.              | YEARS · OF LIFE. | DEATHS. | YEARS<br>OF LIFE. | DEATHS. | YEARS<br>OF LIFE. | DEATIIS. | YEARS<br>OF LIFE. | DEATHS. | YEARS · OF LIFE. | DEATHS. |
| Ist                | 1,317.0          | 6       | 1,413.4           | 7       | 1,380.6           | 2        | 1,317.5           | 4       | 1,288.5          | 9       |
| 2d                 | 2,443.0          | 13      | 2,437.8           | 17      | 2,497.8           | 18       | 2,461.6           | 17      | 2,469.8          | 18      |
| 3d                 | 2,038.2          | IO      | 2,146.9           | ΙΙ      | 2,110.1           | 15       | 2,190.6           | 19      | 2,136.9          | 20      |
| 4th                | 1,737.7          | IO      | 1,856.0           | 20      | 1,944.3           | 7        | 1,927.3           | II      | 2,006.2          | 20      |
| 5th                | 1,534.0          | 14      | 1,610.4           | 14      | 1,681.7           | 15       | 1,788.5           | 15      | 1,767.0          | 16      |
| 6th                | I,345.I          | 13      | 1,411.7           | IO      | I,44I.I           | . 15     | 1,537.2           | II      | 1,645.8          | 10      |
| 7th                | 1,021.5          | 9       | 1,232.4           | 9       | 1,314.4           | 12       | 1,318.3           | 8       | 1,419.6          | 7       |
| 8th                | 846. 1           | 10      | 948.9             | 3       | 1,148.7           | 8        | 1,213.2           | 13      | 1,228.0          | ΙΙ      |
| 9th                | 674.3            | 6       | 778.2             | 10      | 885.2             | 4        | 1,060.3           | 3       | 1,127.2          | ΙΙ      |
| Ioth               | 456.6            | 4       | 623.2             | 4       | 706.2             | 8        | 813.4             | 3       | 970.8            | 12      |
| 11th               | 320.3            | 4       | 405.5             | 5       | 542.4             | 2        | 643.4             | 5       | 726.8            | 9       |
| 12th               | 195.5            | 4       | 280.3             | 2       | 361.8             | I        | 486.5             | 3       | 567.6            | 2       |
| 13th               | 77.8             | 2       | 154.4             | I       | 231.9             |          | 290.3             | 3       | 392.4            | 2       |
| 14th               | 29.5             |         | 59.5              | I       | 119.3             | I        | 190.1             |         | 244.0            | I       |
| ı 5th₁             | 26. I            |         | 26.0              |         | 43.8              |          | 91.5              | 2       | 143.1            | I       |
| 16th               | 8.0              |         | 20.0              |         | 15.2              |          | 27.4              |         | 73.2             |         |
| 17th               | 3.6              |         | 6.0               |         | 8.0               |          | . 10.0            |         | 16.7             | I       |
| 18th               | 2.0              |         | 3.0               |         | 6.0               |          | 4.0               |         | 6.0              |         |
| 19th               | 2.0              |         | 2.0               |         | 3.0               |          | 6.0               |         | 4.0              |         |
| 20th               |                  |         | 2.0               |         | 2.0               |          | 3.0               | I       | 4.2              | I       |
| 21st               |                  |         |                   |         | 2.0               |          | 2.0               |         | 2.0              |         |
| 22d                |                  |         |                   |         |                   |          | 2.0               |         | 2.0              |         |
| 23d .              |                  | ļ l     |                   |         |                   |          |                   |         | 2.0              |         |

TABLE I.—(Continued).

|                             |                   |         |                   | CURR    | RENT AGE          | OF INSU | RED.              |         |                   |         |
|-----------------------------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|
| YEAR OF<br>MEMBER-<br>SHIP. | 36                |         | 37                |         | 38                | 3       | 39                |         | 40                | )       |
| 51111.                      | YEARS OF<br>LIFE. | DEATHS. | Years of<br>Life. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. | YÉARS OF<br>LIFE. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. |
| ıst                         | 1,216.4           | 9       | 1,213.0           | 5       | 1,127.3           | 3       | 1,076.0           | 4       | 1,066.5           | 6       |
| 2d                          | 2,347.5           | 14      | 2,265.5           | 10      | 2,194.2           | II      | 2,090.7           | 17      | 2,017.7           | 9       |
| 3d                          | 2,148.7           | II      | 2,069.2           | 13      | 1,962.3           | 18      | 1,933.3           | II      | 1,841.6           | 13      |
| 4th                         | 1,956.0           | 12      | 1,945.6           | 12      | 1,853.1           | 21      | 1,795.0           | 8       | 1,760.9           | 18      |
| 5th                         | 1,858.0           | 16      | 1,774.7           | II      | 1,783.2           | 17      | 1,700.0           | 16      | 1,651.9           | II      |
| 6th                         | 1,600.2           | 13      | 1,732.8           | IO      | 1,636.0           | 17      | 1,636.2           | 20      | 1,554.6           | 17      |
| 7th                         | 1,513.0           | 8       | 1,473.9           | 17      | 1,613.8           | 13      | 1,527.7           | II      | 1,507.2           | 12      |
| 8th                         | 1,323.4           | 7       | 1,397.4           | 12      | 1,377.2           | 14      | 1,499.7           | 13      | 1,419.5           | 10      |
| 9th                         | 1,132.4           | 6       | 1,226.0           | 6       | 1,293.2           | 10      | 1,274.4           | 10      | 1,399.3           | 16      |
| 10th                        | 1,044.3           | 7       | 1,033.4           | 5       | 1,120.5           | 9       | 1,226.2           | 6       | 1,179.6           | 13      |
| 11th                        | 893.8             | 6       | 952.6             | 8       | 941.0             | 2       | 1,040.0           | 3       | 1,109.6           | 3 8     |
| 12th                        | 654.3             | 5       | 785.0             | 4       | 857.6             | 6       | 844.5             | 7       | 931.1             |         |
| 13th                        | 481.2             | 2       | 557.7             | 2       | 688.0             | 7       | 7.31.5            | 4       | 722.6             | 6       |
| 14th                        | 328.1             | 2       | 409.9             | 5       | 489.5             | 3       | 606.0             | 5       | 625.9             | 9       |
| 1 5th                       | 198.6             | I       | 275.3             | 2       | 321.3             | 3       | 413.0             | 5       | 497.6             | 2       |
| ıбth                        | 101.7             | I       | 154.1             | • •     | 219.5             | 3       | 254.8             | • •     | 332.7             | 2       |
| 17th                        | 46.0              |         | 69.0              | • •     | 103.0             |         | 143.2             | • •     | 192.2             |         |
| 18th                        | 11.6              | • •     | 39.3              | • •     | 60.0              | • •     | 81.0              |         | 107.2             | 3       |
| 19th                        | 6.0               |         | 11.0              | • •     | 35.0              | • •     | 50.7              | I       | 70.4              | • •     |
| 20th                        | 4.0               | • •     | 6.0               | • •     | 10.9              | I       | 33.9              | • •     | 42.0              |         |
| 21st                        | 4.0               | •••     | 2.0               | • •     | 4.0               | • •     | 8.0               | • •     | 29.0              |         |
| 22d                         | 2.0               | • •     | 3.0               | • •     | 2.0               |         | 4.0               | • •     | 7. I              | I       |
| 23d                         | 1.3               |         | 2.0               | • •     | 3.0<br>2.0        |         | 2.0               |         | 4.0               | • •     |
| 24th                        | 2.0               |         | 1.0<br>2.0        | • •     | 1.0               |         | 2.2               |         | 2.0               |         |
| 25th<br>26th                |                   |         | 2.0               | • •     | 2.0               | • •     | 2.0<br>I.0        |         | I.0<br>2.0        |         |
| 20th<br>27th                |                   |         |                   | • •     |                   | • •     | 2.0               |         | 1.0               | • •     |
| 27th<br>28th                | • • • •           |         | • • • • •         | • • •   |                   | • •     |                   |         |                   | • •     |
| 2011                        |                   |         |                   |         |                   |         |                   |         | 0.1               |         |

TABLE I.—(Continued).

|   |  |   |   | CURI  | RENT AGE   | OF INSU  | RED.   |   |   |  |
|---|--|---|---|---|--|--|--|---|---|--|
| YEAR OF<br>MEMBER-  | 41   |   | 42  | 2   | 43   | 3  | 44   |   | 45  | 5  |
| SHIP.   | YEARS OF<br>LIFE.  | Deaths.   | YEARS OF<br>LIFE.   | DEATHS.   | YEARS OF<br>LIFE.  | DEATHS.  | Years of<br>Life.  | DEATHS.   | Years of<br>Life.   | DEATHS.  |
| 1st 2d 3d 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22d 23d | 934. I<br>1,877. I<br>1,776.8<br>1,684.8<br>1,623. I<br>1,534.9<br>1,443.7<br>1,391.0<br>1,330.7<br>1,307.6<br>1,091.2<br>1,008.2<br>802.5<br>626.8<br>531.4<br>396.8<br>227.4<br>145.0<br>84.5<br>69.0<br>36.5<br>22.0<br>5.0 | 9 16 11 17 10 18 10 12 7 11 13 13 4 7 4 4 3 1 1 | 875.5<br>1,674.4<br>1,642.7<br>1,626.8<br>1,546.2<br>1,482.5<br>1,430.9<br>1,343.1<br>1,303.9<br>1,229.4<br>1,222.1<br>986.5<br>871.2<br>707.2<br>519.1<br>410.6<br>273.4<br>184.2<br>119.8<br>75.8<br>60.1<br>28.7<br>17.7 | 3<br>16<br>19<br>9<br>13<br>16<br>13<br>16<br>8<br>8<br>13<br>8<br>2<br>7<br>4<br>4<br> | 776.7<br>1,581.1<br>1,457.1<br>1,479.7<br>1,496.2<br>1,397.1<br>1,392.2<br>1,343.1<br>1,263.4<br>1,222.3<br>1,161.8<br>1,123.3<br>879.1<br>785.3<br>600.3<br>424.4<br>265.2<br>208.1<br>155.1<br>103.4<br>62.5<br>49.0<br>26.0 | 4 15 10 15 17 10 8 11 13 5 9 10 8 11 4 2 3 1 3 2 | 752.2 1,443.3 1,408.3 1,326.0 1,359.6 1,387.6 1,300.6 1,282.3 1,247.6 1,175.1 1,125.3 1,061.9 981.1 745.8 635.8 476.4 298.7 206.5 181.2 134.5 85.0 45.6 42.4 | 6<br>18<br>11<br>8<br>20<br>8<br>8<br>12<br>13<br>13<br>12<br>10<br>9<br>7<br>10<br>6<br>4<br>3<br><br>2<br>2 | 786.0 1,403.4 1,284.2 1,286.9 1,238.2 1,257.5 1,267.3 1,227.8 1,202.3 1,164.6 1,097.9 1,020.1 907.5 864.7 621.0 506.6 334.2 230.9 185.8 164.9 109.0 71.2 41.3 | 6<br>7<br>7<br>17<br>9<br>13<br>11<br>10<br>16<br>13<br>19<br>13<br>9<br>5<br>7<br>2<br>3<br>3<br>5<br>1 |
| 24th<br>25th<br>26th<br>27th  | 3.0<br>2.0<br>1.5<br>2.0   | I .   | 3.0<br>3.0<br>1.0   | •••   | 15.9<br>3.0<br>2.6<br>1.0  | I  | 24.0<br>14.4<br>2.0<br>3.0   | ••  | 38. I<br>18. 7<br>I 3. 0<br>2. 0  | I<br>···   |
| 28th<br>29th<br>30th<br>31st  | I.O<br>I.O   |   | 2.0<br><br>1.0<br>  |   | I.0<br>I.0<br>I.0  |  | I.O<br>I.O   |   | 3.0<br>I.0<br>I.0   | • •  |
| 32d<br>33d  |  |   |   |   |  |  | I.O  |   | I.0   |  |

TABLE I.—(Continued).

|                             |                   |         |                    | CURF    | RENT AGE          | OF INSU | JRED.             |         |                   |         |
|-----------------------------|-------------------|---------|--------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|
| YEAR OF<br>MEMBER-<br>SHIP. | 46                | 3       | 47                 | 7       | 48                | 3       | 49                | 9       | 50                | 0       |
| 31111.                      | YEARS<br>OF LIFE. | DEATHS. | Years<br>of Life.  | DEATHS. | YEARS<br>OF LIFE. | DEATHS. | YEARS<br>OF LIFE. | DEATHS. | Years<br>of Life. | DEATHS. |
| ıst                         | 660.9             | 2       | 597.3              | 5       | 538.9             | 4       | 464.4             | 2       | 469.9             | 9       |
| 2d                          | 1,424.6           | 8       | 1,223.4            | IO      | 1,103.9           | 9       | 980.5             | 9       | 905.8             | 9       |
| 3d                          | 1,260.9           | 7       | 1,257.2            | 17      | 1,093.4           | 19      | 993.7             | 10      | 855.3             | IO      |
| 4th                         | 1,166.6           | 12      | 1,149.9            | II      | 1,140.7           | 17      | 1,005.6           | ·II     | 919.3             | 15      |
| 5th                         | 1,173.2           | 19      | 1,077.2            | 14      | 1,070.3           | IO      | 1,044.8           | IO      | 929.1             | 14      |
| бth<br>7th                  | 1,129.7           | II      | 1,063.7<br>1,064.6 | 9 8     | 1,003.8           | 9       | 985.3             | • 13    | 962.4             | 19      |
| 8th                         | 1,109.0           | 9 6     | 1,004.0            | II      | 1,002.8           | 10      | 948.3             | 13      | 891.3             | 10      |
| 9th                         | 1,192.0           | 11      | 1,080.7            | 8       | 1,003.6           | 7       | 933·7<br>947·9    | 7       | 870.0             | 13      |
| 10th                        | 1,117.5           | 8       | 1,069.9            | 4       | 1,020.0           | 12      | 947.9             | 9       | 887.7             | I I     |
| 11th                        | 1,075.3           | 15      | 1,041.3            | 7       | 988.3             | 13      | 987.4             | II      | 875.5             | 9       |
| 12th                        | 977.7             | 6       | 958.2              | 10      | 958.1             | 6       | 890.7             | 13      | 887.0             | 7       |
| 13th                        | 885.7             | 7       | 840.0              | 12      | 851.5             | 5       | 840.3             | 9       | 778.6             | 8.      |
| 14th                        | 788.6             | 10      | 770.5              | 7       | 726.8             | 10      | 747.6             | 6       | 726.8             | 8       |
| 15th                        | 716.3             | 6       | 643.2              | 8       | 645.0             | 5       | 608.4             | 6       | 610.4             | 8       |
| 16th                        | 513.2             | 3       | 577.1              | 7       | 509.4             | 5       | 509.5             | 4       | 484.5             | 6       |
| 17th                        | 359.4             | 4       | 332.3              | 6       | 388.1             | 4       | 341.9             | 6       | 336.4             | 4       |
| 18th                        | 276.3             | 3       | 275.8              | 4       | 265.0             | 5       | 314.6             | 3       | 277.2             | I       |
| 19th                        | 196.9             | I       | 219.1              |         | 240.2             | 2       | 224.0             | 5       | 270.6             | 3       |
| 20th                        | 168.9             |         | 177.4              | 3       | 202.7             | 3       | 222.3             | 5       | 206.1             | 4       |
| 21st                        | 135.7             |         | 145.5              |         | 150.0             | I       | 174.3             |         | 186.1             | I       |
| 22d                         | 81.8              | 2       | 113.1              | I       | 128.9             | 2       | 129.5             | 4       | 146.9             | 6       |
| 23d<br>24th                 | 58.5              | 2       | 72.3               | I       | 98.9              | I       | 88.8              | 3       | 110.0             | I       |
| 25th                        | 39.0              | т.      | 51.8<br>34.0       |         | 69.4              | I       | 67.7              | 2 2     | 105.4<br>78.4     | I 2     |
| 25th                        | 14.2              | I       | 33.0               |         | 30.0              | I       | 45.4              | 2 2     | 58.6              | 1 I     |
| 27th                        | I I.O             | I       | 12.0               |         | 30.8              |         | 26.4              | I I     | 41.9              | I I     |
| 28th                        | 2.0               |         | 9.9                | I       | 9.7               | I       | 28.0              |         | 25.0              | 1       |
| 29th                        | 2.0               |         | 2.0                |         | 8.0               |         | 7.0               |         | 31.6              | I       |
| 30th                        | 1.0               |         | 2.0                |         | 2.0               |         | 6.0               |         | 4.9               | 2       |
| 31st                        | 1.0               |         | 1.0                |         | 2.0               |         | 2.0               |         | 5.0               |         |
| 32d                         | 1.0               |         |                    |         | 1.0               |         | 1.0               |         | 2.0               |         |
| 33d                         |                   |         | 1.0                |         |                   |         | 1.0               |         | •3                |         |
| 34th.                       | 4                 |         |                    |         | 1.0               |         |                   |         |                   |         |
| 35th                        |                   |         |                    |         |                   |         |                   |         |                   |         |

TABLE I.—(Continued).

|   |  |  |   | CURR   | RENT AGE   | OF INSU  | RED.  |  |   |   |
|---|--|--|---|--|--|--|---|--|---|---|
| YEAR OF<br>MEMBER-<br>SHIP.   | 51   |  | 52  | 2  | . 53   | 3  | 54  | 1  | 5   | 5   |
| Snir.   | YEARS OF<br>LIFE.  | DEATHS.  | YEARS OF<br>LIFE.   | DEATHS.  | YEARS OF<br>LIFE.  | <b>DEATHS.</b>   | YEARS OF<br>LIFE.   | DEATHS.  | Years of<br>Life.   | DEATHS.   |
| 1st 2d 3d 4th 5th 6th 7th 8th 9th 10th 11th 12th 15th 16th 17th 18th 19th 20th 21st 22d 23d 24th 25th | 394.9<br>807.4<br>795.8<br>785.3<br>847.5<br>851.6<br>899.1<br>858.4<br>833.8<br>810.3<br>814.5<br>793.7<br>748.7<br>670.5<br>590.6<br>487.2<br>334.2<br>250.8<br>243.7<br>243.0<br>178.9<br>154.9<br>139.9<br>97.5<br>100.4 | 3<br>11<br>10<br>1·1<br>14<br>9<br>7<br>14<br>7<br>17<br>8<br>11<br>9<br>4<br>9<br>7<br>1<br>2<br>4<br>4 | 323.4<br>708.0<br>713.5<br>723.1<br>720.1<br>789.5<br>797.9<br>853.8<br>810.9<br>778.4<br>750.9<br>717.8<br>696.3<br>647.9<br>555.2<br>474.0<br>345.2<br>2257.3<br>210.7<br>218.4<br>196.5<br>151.2<br>132.7<br>130.0<br>88.5 | 4<br>6<br>8<br>9<br>11<br>9<br>12<br>9<br>7<br>10<br>8<br>8<br>12<br>14<br>8<br>2<br>6<br>3<br>3<br>1<br>1 | 323.1<br>601.1<br>630.0<br>662.6<br>666.8<br>654.6<br>743.3<br>744.0<br>804.3<br>768.2<br>717.8<br>659.3<br>622.8<br>585.1<br>510.8<br>412.8<br>319.6<br>.252.1<br>211.2<br>189.0<br>178.1<br>172.0<br>133.7<br>124.4<br>122.0 | 2<br>6<br>14<br>6<br>14<br>18<br>8<br>11<br>17<br>11<br>5<br>16<br>8<br>6<br>4<br>11<br>4<br>4<br>2<br>2<br>6<br>3<br>3<br>3<br>3<br>3 | 249.0<br>591.0<br>540.7<br>576.1<br>625.8<br>615.6<br>622.3<br>697.7<br>705.2<br>748.8<br>690.2<br>640.8<br>565.1<br>540.8<br>488.2<br>398.8<br>275.3<br>235.2<br>215.2<br>188.1<br>156.7<br>147.5<br>156.4<br>126.0<br>116.3 | 3<br>6<br>3<br>10<br>4<br>12<br>5<br>7<br>8<br>15<br>11<br>13<br>11<br>5<br>9<br>5<br>2<br>3<br>3<br>1<br>2<br>1 | 246.9<br>449.3<br>529.8<br>493.8<br>523.7<br>583.4<br>580.3<br>588.4<br>658.9<br>658.8<br>686.3<br>609.6<br>542.7<br>486.4<br>457.9<br>372.5<br>267.5<br>199.9<br>191.7<br>195.4<br>165.9<br>139.5<br>138.2<br>143.9<br>117.9 | 3<br>4<br>9<br>7<br>16<br>7<br>7<br>10<br>4<br>11<br>9<br>10<br>8<br>6<br>6<br>11<br>4<br>3<br>3<br>2<br>5<br>4 |
| 26th<br>27th<br>28th<br>29th<br>30th  | 68.5<br>55.8<br>34.5<br>22.0   | I  | 92.8<br>64.4<br>53.0<br>33.0  | 3<br>I<br>··   | 84.4<br>85.0<br>58.2<br>50.7<br>30.7   | 2<br><br>I<br>2  | 108.0<br>78.3<br>83.0<br>52.0<br>44.3   | 3<br>2<br>   | 110.9<br>95.6<br>70.3<br>72.6<br>48.3   | 2 2 3 2 2   |
| 30th<br>31st<br>32d<br>33d<br>34th<br>35th  | 27.0<br>4.0<br>5.0<br>1.0  | ••   | 21.1<br>24.8<br>3.0<br>4.0<br>1.0   |  | 30.7<br>18.7<br>20.0<br>2.0<br>2.0   | I  | 28.0<br>18.1<br>17.0<br>2.0   | I  | 40.3<br>42.1<br>20.0<br>11.7<br>11.0  |   |

TABLE I.—(Continued).

|   |  |   |  | CURF   | RENT AGE   | OF INSU   | RED.   |   |  |  |
|---|--|---|--|--|--|---|--|---|--|--|
| YEAR OF<br>MEMBER-<br>SHIP.   | 56   | 5   | 5"   | 7  | . 58   | 3   | 59   | 9   | 60   | 0  |
| SHIF.   | YEARS OF<br>LIFE.  | DEATHS.   | YEARS OF LIFE.   | DEATHS.  | Years of<br>Life.  | DEATHS.   | YEARS OF<br>LIFE.  | DEATHS.   | YEARS OF<br>LIFE.  | DEATHS.  |
| 1st 2d 3d 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22d 23d 24th 25th | 211.1<br>442.5<br>391.6<br>495.2<br>456.2<br>473.6<br>525.9<br>540.8<br>553.3<br>610.1<br>615.3<br>614.9<br>535.3<br>454.7<br>387.3<br>365.4<br>241.0<br>213.8<br>164.6<br>173.4<br>172.0<br>144.9<br>122.2<br>128.5<br>135.3<br>109.0 | 4<br>6<br>7<br>5<br>4<br>12<br>8<br>9<br>7<br>11<br>13<br>10<br>10<br>12<br>3<br>2<br>3<br>4<br>4<br>2<br>1 | 174.2<br>360.6<br>388.7<br>359.2<br>455.8<br>421.1<br>441.1<br>512.9<br>505.7<br>529.5<br>558.2<br>550.2<br>544.1<br>443.2<br>364.8<br>296.8<br>236.8<br>182.5<br>190.1<br>140.0<br>153.1<br>150.7<br>126.9<br>108.6<br>119.1<br>123.5 | 3<br>10<br>3<br>3<br>11<br>9<br>6<br>8<br>15<br>9<br>11<br>8<br>7<br>10<br>13<br>5<br>9<br>4<br>3<br>6<br>3<br>3<br>11 | 150.8<br>308.3<br>319.8<br>353.3<br>334.4<br>421.4<br>392.3<br>412.8<br>478.5<br>465.2<br>475.2<br>502.6<br>469.1<br>467.9<br>340.5<br>282.6<br>201.8<br>175.1<br>157.2<br>170.6<br>119.2<br>125.8<br>128.3<br>115.0<br>102.4<br>110.4 | 2<br>5<br>3<br>13<br>5<br>9<br>8<br>7<br>13<br>11<br>8<br>7<br>7<br>4<br>4<br>4<br>3<br>3<br>4<br>2<br>6<br>3<br>2<br>6 | 136.9<br>263.3<br>284.0<br>286.0<br>325.7<br>312.6<br>392.4<br>355.3<br>383.6<br>440.0<br>425.3<br>421.1<br>418.3<br>403.4<br>374.8<br>245.5<br>183.8<br>152.2<br>136.5<br>143.8<br>100.7<br>102.0<br>116.7<br>107.8<br>95.5 | I 6 3 II 8 4 I3 8 I4 II 9 7 I7 6 II 4 8 2 2 I 4 I I I I I I I I I I I I I I I I | 123.1<br>241.3<br>241.5<br>257.7<br>264.2<br>310.2<br>293.0<br>365.4<br>334.0<br>347.6<br>404.2<br>374.2<br>350.5<br>346.5<br>302.9<br>278.5<br>156.4<br>137.1<br>119.7<br>132.0<br>121.2<br>125.8<br>87.9<br>93.6<br>114.0<br>102.4 | 3<br>4<br>8<br>6<br>5<br>7<br>8<br>7<br>9<br>14<br>7<br>13<br>3<br>5<br>3<br>3<br>4<br>2<br>2<br>6<br>3<br>4 |
| 27th<br>28th<br>29th<br>30th<br>31st<br>32d<br>33d  | 101.2<br>89.9<br>64.6<br>62.6<br>39.5<br>38.8<br>19.0  | I<br>I<br><br>2<br>I<br>I   | 104.0<br>92.5<br>80.4<br>59.8<br>55.8<br>34.4  | 4<br>2<br>1  | 98.2<br>81.4<br>76.7<br>55.2<br>46.8<br>27.0   | 4<br><br>4<br>I<br>I  | 102.7<br>104.9<br>94.3<br>75.3<br>70.0<br>46.5   | 1<br>2<br>2<br>3<br>···   | 88.0<br>98.8<br>99.2<br>85.8<br>65.4   | 2<br>I<br>3<br>I<br>I<br>2   |
| 34th<br>35th  | 6.0<br>2.0   |   | 32.9<br>12.0<br>2.2  | · · · I  | 18.0<br>4.0  |   | 36.9<br>19.0<br>3.0  |   | 30.5<br>22.0<br>4.8  | . · · · · · · · · · · · · · · · · · · ·  |

TABLE I.—(Continued).

| 1st         83.5         1         64.7         3         62.2         2         65.1          52.6            2d         194.2         3         150.2         1         122.7         4         116.2         1         149.5         5           3d         225.2         2         179.2         2         137.0         3         110.4         4         106.8         4           4th         218.2         8         209.2         7         164.3         3         129.8         4         103.3         2           5th         236.1         8         206.4         3         192.6         5         149.0         3         124.4         5           6th         242.6         8         218.5         4         189.1         7         176.1         5         142.0         5           7th         278.9         10         219.5         6         201.8         7         172.8         7         161.8         5           8th         279.4         6         261.6         7         203.5         5         189.4         5         163.4         8           9th         340.   |   |   | CURRENT AGE OF INSURED.  |  |  |  |   |  |   |   |  |  |  |  |  |
|--|---|---|--|--|--|--|---|--|---|---|--|--|--|--|--|
| Vears of Life.   Deaths.   De | MEMBER-   | 61  | 61   |  | 62   |  | 63  |  | 64  |   | 65   |  |  |  |  |
| 2d   |   |   | DEATHS.  |  | DEATHS.                                    |  | DEATHS.   |  | <b>DEATHS.</b>  |   | DEATHS.  |  |  |  |  |
| 29th 93.8 . 76.8 5 86.9 4 79.5 2 56.3 4 79.5 7 70.5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7  | 2d 3d 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 20th 21st 22d 23d 24th 25th 26th 27th 28th 29th 30th 31st 32d | 194.2<br>225.2<br>218.2<br>236.1<br>242.6<br>278.9<br>279.4<br>340.0<br>310.4<br>316.7<br>356.8<br>300.0<br>298.2<br>266.4<br>234.5<br>173.1<br>115.8<br>116.2<br>104.8<br>113.9<br>105.1<br>111.6<br>76.8<br>78.3<br>103.6<br>98.7<br>82.9<br>93.8<br>90.0<br>74.8<br>54.8 | 3<br>2<br>8<br>8<br>8<br>8<br>10<br>6<br>9<br>9<br>10<br>3<br>8<br>7<br>13<br>4<br>3<br>5<br>2<br>1<br><br>5<br>7<br>3<br>1<br>1<br><br>5<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 150.2<br>179.2<br>209.2<br>206.4<br>218.5<br>219.5<br>261.6<br>259.3<br>313.0<br>280.9<br>272.1<br>306.1<br>246.9<br>233.3<br>201.7<br>141.3<br>119.4<br>92.9<br>101.9<br>90.0<br>101.2<br>95.0<br>101.0<br>73.5<br>74.2<br>96.7<br>93.3<br>76.8<br>86.0<br>81.5<br>59.9 | 1 2 7 3 4 6 7 7 7 5 11 4 9 7 3 7 1 2 1 5 1 | 122.7<br>137.0<br>164.3<br>192.6<br>189.1<br>201.8<br>203.5<br>248.2<br>238.0<br>286.9<br>244.6<br>224.2<br>259.7<br>191.6<br>182.4<br>133.9<br>97.3<br>89.2<br>80.1<br>81.6<br>67.9<br>87.2<br>85.7<br>94.3<br>71.2<br>64.9<br>85.9<br>86.9<br>67.4<br>77.1<br>62.1 | 4 3 3 5 7 7 5 5 8 5 1 1 8 9 1 1 7 7 8 3 2 1 5 3 3 2 4 1 3 5 4 4 3 2 | 116.2<br>110.4<br>129.8<br>149.0<br>176.1<br>172.8<br>189.4<br>190.4<br>222.4<br>206.3<br>240.0<br>198.9<br>182.2<br>205.5<br>139.6<br>107.2<br>97.7<br>77.1<br>75.9<br>66.9<br>69.5<br>58.5<br>80.1<br>81.5<br>87.9<br>67.4<br>62.0<br>79.5<br>79.0<br>57.4<br>63.8 | 1<br>4<br>4<br>3<br>5<br>7<br>5<br>6<br>7<br>9<br>7<br>8<br>5<br>6<br>2<br>4<br>4<br>1<br>6<br>3<br>1<br>4<br>6<br>4<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | 149.5<br>106.8<br>103.3<br>124.4<br>142.0<br>161.8<br>163.4<br>171.8<br>172.3<br>204.9<br>176.1<br>201.4<br>167.2<br>148.3<br>156.6<br>87.7<br>79.3<br>84.5<br>67.6<br>57.2<br>58.9<br>60.8<br>51.7<br>74.1<br>74.0<br>84.8<br>62.0<br>56.3<br>70.5<br>69.5<br>41.8 | 5<br>4<br>2<br>5<br>5<br>5<br>5<br>8<br>5<br>2<br>9<br>4<br>6<br>3<br>4<br>7<br>2<br>5<br>1<br>3<br>2<br>3<br>1<br>4<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |  |  |  |  |

TABLE I.—(Continued).

| Section of the sectio |   |   |   |   |   |         |   |         |  |   |
|--|---|---|---|---|---|---------|---|---------|--|---|
| YEAR OF<br>MEMBER-<br>SHIP.  | 66  |   | 67  |   | 68  |         | 69  |         | 70   |   |
|  | YEARS OF<br>LIFE.   | DEATHS.   | YEARS OF LIFE.  | DEATHS.   | YEARS OF<br>LIFE.   | DEATHS. | YEARS OF<br>LIFE.   | DEATHS. | YEARS OF<br>LIFE.  | DEATHS.   |
| 1st 2d 3d 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 20th 21st 22d 23d 24th 25th 26th 27th 28th 29th 30th 31st 32d 33d 34th 35th  | 2.9<br>64.5<br>139.5<br>97.7<br>106.2<br>114.1<br>132.1<br>151.1<br>150.7<br>151.8<br>155.8<br>177.2<br>143.9<br>164.8<br>129.2<br>111.5<br>91.7<br>60.0<br>68.7<br>61.3<br>46.6<br>46.3<br>57.1<br>46.4<br>64.7<br>69.6<br>79.9<br>52.6<br>53.7<br>64.8<br>58.3<br>33.0<br>26.9<br>, 9.0 | 2 4 4 2 4 6 8 7 5 7 9 3 7 6 3 4 1 5 1 1 2 4 2 3 3 2 2 4 1 | 1.4<br>5.7<br>62.9<br>133.2<br>89.0<br>97.4<br>108.3<br>121.9<br>140.6<br>135.0<br>135.8<br>139.2<br>144.1<br>111.1<br>130.4<br>95.7<br>74.0<br>64.2<br>48.0<br>52.6<br>57.9<br>50.0<br>39.1<br>39.1<br>53.3<br>39.6<br>58.9<br>64.2<br>70.6<br>44.0<br>47.0<br>50.8<br>44.5<br>28.1<br>7.3 | I I 5 6 2 5 4 7 6 2 4 5 6 2 I I I 6 5 2 4 4 2 2 3 2 I | 2.4<br>5.0<br>60.6<br>123.8<br>84.0<br>91.7<br>103.0<br>112.9<br>125.9<br>118.3<br>109.8<br>97.5<br>117.9<br>86.8<br>83.4<br>57.7<br>50.7<br>49.3<br>42.1<br>45.1<br>45.1<br>45.1<br>45.1<br>45.1<br>45.1<br>45.1<br>45 |         | 2.0<br>2.1<br>56.3<br>112.2<br>78.0<br>86.0<br>93.4<br>97.1<br>107.9<br>90.8<br>88.3<br>80.1<br>96.0<br>59.2<br>53.7<br>47.9<br>44.4<br>40.5<br>34.1<br>37.8<br>39.3<br>38.4<br>29.0<br>33.0<br>42.9<br>33.0<br>50.5<br>49.4<br>49.4<br>27.9<br>27.7<br>24.0<br>6.0 |         | 2.0<br>3.0<br>47.4<br>104.4<br>72.7<br>78.5<br>86.7<br>78.7<br>85.5<br>70.2<br>61.4<br>62.0<br>73.8<br>33.4<br>40.2<br>39.2<br>39.3<br>30.6<br>25.0<br>33.6<br>31.7<br>33.3<br>28.7<br>30.3<br>37.6<br>30.8<br>41.6<br>39.5<br>34.5<br>19.2<br>21.0<br>6.8 | 5<br>4<br>7<br>7<br>5<br>9<br>7<br><br>6<br>1<br>7<br>1<br>1<br>4<br>2<br>3<br><br>2<br>3<br>1<br>2<br>1<br>3<br>1<br>2 |

TABLE I.—(Continued).

|                             |   |   |                   |  | CURI              | RENT AGE OF INSURED.   |   |   |                   |  |   |  |
|-----------------------------|---|---|-------------------|--|-------------------|--|---|---|-------------------|--|---|--|
| YEAR OF<br>MEMBER-<br>SHIP. | MEMBER-   | 71  | 71                |  | 72                |  | 73  |   | 74                |  | 5   |  |
|                             | Years of<br>Life.   | Deaths.   | Years of<br>Life. | DEATHS.  | YEARS OF<br>LIFE. | DEATHS.  | Years of<br>Life.   | DEATHS.   | Years of<br>Life. | DEATHS.  |   |  |
|                             | 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22d 23d 24th 25th 26th 27th 28th 29th 30th 31st 32d 33d | 2.0<br>3.0<br>43.6<br>100.0<br>65.4<br>67.9<br>80.8<br>59.8<br>61.1<br>51.5<br>41.3<br>45.2<br>46.9<br>27.1<br>35.3<br>32.7<br>32.8<br>24.5<br>21.6<br>30.0<br>30.3<br>28.8<br>24.7<br>26.1<br>31.3<br>28.6<br>36.0<br>30.1<br>23.7 |                   | 2.0<br>3.0<br>39.2<br>89.7<br>63.0<br>58.0<br>60.3<br>49.7<br>47.9<br>35.0<br>27.0<br>25.8<br>38.1<br>25.3<br>28.4<br>26.4<br>25.9<br>20.7<br>19.0<br>26.6<br>26.7<br>25.6<br>22.9<br>24.8<br>29.4<br>24.6<br>32.3<br>20.9 |                   | 2.0<br>2.3<br>34.0<br>82.8<br>52.7<br>45.0<br>33.8<br>38.9<br>29.2<br>19.2<br>14.0<br>17.4<br>25.8<br>20.2<br>22.6<br>20.1<br>20.2<br>16.4<br>16.6<br>25.0<br>23.9<br>22.8<br>17.2<br>24.0<br>23.9<br>19.9<br>25.1 | 5<br>2<br>8<br>2<br>5<br>1<br>1<br><br>1<br>2<br>4<br>1<br>3<br>3<br>2<br>2<br>1<br><br>1<br>1<br>1 | 2.0<br>1.4<br>30.0<br>73.4<br>36.3<br>32.5<br>24.8<br>28.4<br>19.5<br>11.5<br>6.2<br>15.0<br>20.4<br>18.2<br>18.0<br>15.5<br>14.7<br>14.6<br>13.9<br>25.7<br>22.0<br>20.6<br>17.0<br>22.3<br>21.0<br>13.2 |                   | 2.0<br>1.0<br>22.1<br>60.0<br>25.4<br>25.6<br>17.8<br>19.0<br>7.4<br>9.0<br>15.0<br>17.6<br>14.3<br>16.9<br>12.6<br>12.0<br>11.0<br>20.7<br>17.8<br>17.9<br>14.0<br>15.1 | 5<br>3<br>1<br>1<br><br>2<br>4<br>1<br>2<br><br>2<br>3<br>1 |  |
|                             | 34th<br>35th  | 9.0<br>5.4  | 3                 | 14.0<br>4.0  |                   | 14.4<br>4.1  | I 2   | 16.6<br>3.0   | 3 2               | 7.0<br>5.6   | · · ·   |  |

TABLE I.—(Continued).

|                             |                   |         |                   | CURF    | RENT AGE OF INSURED. |         |                   |         |                   |         |  |
|-----------------------------|-------------------|---------|-------------------|---------|----------------------|---------|-------------------|---------|-------------------|---------|--|
| YEAR OF<br>MEMBER-<br>SHIP. | 76                | 3       | 77                |         | 78                   | 3       | 79                | •       | 80                | )       |  |
| Silir.                      | Years of<br>Life. | DEATHS. | Years of<br>Life. | DEATHS. | YEARS OF<br>LIFE.    | DEATHS. | YEARS OF<br>LIFE. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. |  |
| ıoth                        | 2.0               |         |                   |         |                      |         |                   |         |                   |         |  |
| 1 1 th                      | 1.0               |         | 2.0               |         |                      |         |                   |         |                   |         |  |
| 12th                        | 13.7              | 2       | 1.0               |         | 2.0                  |         |                   |         |                   |         |  |
| 13th                        | 48.5              | 3       | 9.0               |         | 1.0                  |         | 2.0               |         |                   |         |  |
| 14th                        | 17.0              | 2       | 31.2              | 5       | 5.2                  | I       | 1.0               |         | 2.0               |         |  |
| 15th                        | 19.0              | 2       | 9.6               | 2       | 19.2                 | 4       | 4.0               |         | 1.0               |         |  |
| 16th                        | 11.0              | 2       | 13.1              | 3       | 6.7                  | I       | 13.0              |         | 1.0               |         |  |
| 17th                        | 9.7               | 2       | 7.2               | I       | 7.7                  | I       | 3.1               |         | 6.0               |         |  |
| ı 8th                       | 4.7               | I       | 4.6               | I       | 4.2                  | I       | 4.0               |         | 2.4               | I       |  |
| 19th                        | 5.1               | I       | 3.0               |         | 3.2                  | I       | 4.0               |         | 2.0               |         |  |
| 20th                        | 3.7               | I       | 5.0               |         | 2.2                  | I       | 2.0               |         | 4.0               |         |  |
| 21st                        | 10.0              | 2       | 4.0               |         | 4.4                  | I       | 2.0               |         | 2.0               |         |  |
| 22d                         | 13.3              | 3       | 8.0               |         | 3.3                  | I       | 4.0               | •       | 2.0               |         |  |
| 23d                         | 10.9              | 3       | 11.0              |         | 7.6                  | I       | 3.0               |         | 4.0               |         |  |
| 24th                        | 15.8              | 2       | 9.0               |         | II.I                 | 2       | 8.0               |         | 3.0               |         |  |
| 25th                        | 10.0              |         | 13.1              | 2       | 10.0                 |         | 9.0               |         | 5-7               |         |  |
| 26th                        | 10.2              | I       | 10.6              |         | 11.0                 | 3       | 9.0               |         | 7-5               | 2       |  |
| 27th                        | 9.3               | 3       | 6.1               | I       | 9.9                  | I       | 90                | I       | 7.9               | I       |  |
| 28th                        | 11.0              |         | 8.0               |         | 5.5                  | I       | 9.0               | ,       | 7. I              | I       |  |
| 29th                        | 17.7              | 3       | 10.0              |         | 7.4                  | I       | 4.0               |         | 8.4               | I       |  |
| 30th                        | 13.9              | I       | I 5.7             | I       | 8.7                  | 3       | 6.0               |         | 4.0               |         |  |
| 31st                        | 12.2              | 5       | 10.7              | 2       | 13.9                 | I       | 6.2               | 2       | 5.1               |         |  |
| 32d                         | 14.0              |         | 11.0              |         | 4.0                  | I       | 11.6              | 3       | 5.0               |         |  |
| 33d                         | 11.0              | I       | 11.0              |         | 4.3                  | I       | 3.0               |         | 8.9               |         |  |
| 34th                        | 9.0               |         | 6.0               | I       | 7.8                  | I       | 2.0               |         | 1.9               | 2       |  |
| 35th                        | 2.0               |         | 2.0               |         | 1.0                  |         | 2.0               |         |                   |         |  |

TABLE I.--(Continued).

|                             | CURRENT AGE OF INSURED. |         |                   |         |                   |         |                   |         |                   |         |  |  |  |
|-----------------------------|-------------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|--|--|--|
| YEAR OF<br>MEMBER-<br>SHIP. | 81                      |         | 82                |         | 83                |         | 84                |         | 85                |         |  |  |  |
|                             | YEARS OF<br>LIFE.       | DEATHS. | YEARS OF<br>LIFE. | DEATHS. | YEARS OF<br>LIFE. | Deaths. | YEARS OF<br>LIFE. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. |  |  |  |
| 15th                        | 1.0                     | I       |                   |         |                   |         |                   |         |                   |         |  |  |  |
| 16th                        | .6                      | I       | . I               | I       |                   |         |                   |         |                   |         |  |  |  |
| 17th                        |                         |         |                   | 1       |                   |         |                   |         |                   |         |  |  |  |
| 18th                        | 1.0                     |         |                   |         |                   |         |                   |         |                   |         |  |  |  |
| 19th                        | 1.0                     |         |                   |         |                   |         |                   |         |                   |         |  |  |  |
| 20th                        | 1.9                     | I       | 1.0               |         |                   |         |                   |         |                   |         |  |  |  |
| 21st                        | 4.0                     |         | 1.0               |         | .3                | I       |                   |         |                   |         |  |  |  |
| 22d                         | 1.7                     | I       | 4.0               |         | 1.0               |         |                   |         |                   |         |  |  |  |
| 23d                         | 2.0                     |         | 1.0               |         | 3.8               | I       | 0.1               |         |                   |         |  |  |  |
| 24th                        | 3. I                    | 2       | 2.0               |         | 1.0               |         | 3.0               |         | 1.0               |         |  |  |  |
| 25th                        | 4.0                     | I       | 2.0               |         | 2.0               |         | .6                | I       | 3.0               |         |  |  |  |
| 26th                        | 5.0                     | I       | 1.6               | I       | 2.0               |         | 2.0               |         |                   |         |  |  |  |
| 27th                        | 5-5                     | 2       | 2.9               | 2       | .8                | I       | 1.0               |         | 1.7               | I       |  |  |  |
| . 28th                      | 6.9                     | I       | 4.5               | I       | 2.0               |         |                   |         | 2.0               |         |  |  |  |
| 29th                        | 5.5                     | 2       | 5. I              | I       | 2.7               | I       | 2.0               |         |                   |         |  |  |  |
| 30th                        | 6.0                     |         | 2.9               | 2       | 4.9               |         | 1.7               | I       | 1.0               |         |  |  |  |
| 31st                        | 3.6                     | I       | 4.0               |         | 2.2               |         | 5.0               |         | 1.0               |         |  |  |  |
| 32d                         | 3.0                     |         | 3.0               |         | 5.0               |         | 1.0               |         | 4.7               | I       |  |  |  |
| 33d                         | 5.0                     |         | 2.0               |         | 2.5               | I       | 4.0               |         | 1.0               | 1       |  |  |  |
| 34th                        | 5.8                     | I,      | 3.0               |         | 2.0               |         | 2.0               |         | 3.0               |         |  |  |  |
| 35th                        | .5                      | I       | 1.0               | 1       |                   |         |                   |         |                   |         |  |  |  |

## TABLE I.—(Continued).

|                             | CURRENT AGE OF INSURED. |         |                |         |                |         |                   |         |                |         |  |  |  |
|-----------------------------|-------------------------|---------|----------------|---------|----------------|---------|-------------------|---------|----------------|---------|--|--|--|
| YEAR OF<br>MEMBER-<br>SHIP. | 86                      |         | 87             |         | 88             |         | 89                |         | 90             |         |  |  |  |
|                             | YEARS OF<br>LIFE.       | DEATHS. | YEARS OF LIFE. | DEATHS. | YEARS OF LIFE. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. | YEARS OF LIFE. | DEATHS. |  |  |  |
| arth                        | r                       |         |                |         |                |         |                   |         |                |         |  |  |  |
| 25th<br>26th                | · 5<br>2.7              | I       |                |         |                |         |                   |         |                | • •     |  |  |  |
| 27th                        |                         | 1       | 1.8            | т т     |                | • •     | • • •             | • • •   | ٠.             | • •     |  |  |  |
| 28th                        | I.O                     |         |                |         | 1.0            | • •     |                   |         |                | • •     |  |  |  |
| 20th                        | 2.0                     |         | .7             |         |                |         | 1.0               | • •     | • •            | • •     |  |  |  |
| 30th                        |                         |         | 2.0            | • •     |                |         |                   | • •     | 1.0            |         |  |  |  |
| 31st                        | .6                      | т.      |                |         | 1.0            |         | • •               | • •     |                | • •     |  |  |  |
| 32d                         | 1.0                     | 1       | • •            |         |                |         | 2,0               |         |                | • •     |  |  |  |
| 33d                         | 2.0                     | 2       | 1.0            |         |                |         |                   |         | τ.2            | т.      |  |  |  |
| 34th                        |                         | 3       |                | 1       |                |         |                   |         | 1.3            | 1       |  |  |  |
|                             | τ                       |         |                |         |                |         |                   |         |                |         |  |  |  |
| 35th                        | I.O                     |         |                |         |                |         |                   |         |                |         |  |  |  |

| YEAR OF<br>MEMBER-<br>SHIP. |                   | CURRENT AGE OF INSURED. |                   |         |                   |         |                |         |                   |         |  |  |  |  |
|-----------------------------|-------------------|-------------------------|-------------------|---------|-------------------|---------|----------------|---------|-------------------|---------|--|--|--|--|
|                             | 91                |                         | 92                |         | 93                |         | 94             |         | 95                |         |  |  |  |  |
|                             | YEARS OF<br>LIFE. | <b>ДЕЛТН</b> S.         | YEARS OF<br>LIFE. | DEATHS. | YEARS OF<br>LIFE. | Dеатнs. | YEARS OF LIFE. | DEATHS. | YEARS OF<br>LIFE. | DEATHS. |  |  |  |  |
| 31st<br>32d<br>33d          | 1.0               |                         | 1.0               |         | <br>I.O           |         |                |         |                   |         |  |  |  |  |
| 33d<br>34th<br>35th         | 1.0               |                         |                   |         |                   |         |                |         | • •               |         |  |  |  |  |

TABLE II.

Mortuary Experience of The Mutual Benefit Life Insurance Company from 1845 to 1879, inclusive, showing Comparative Mortality at different Ages.

| AGE.                        | YEARS OF<br>LIFE.  | Amount Insured.  | ACTUAL DEATHS.                  | PROBABLE<br>DEATHS,<br>AMERICAN<br>EXPERIENCE. | ACTUAL LOSS.  | Probable<br>Loss,<br>American<br>Experience.        | ACTUAL<br>TO<br>PROB-<br>ABLE<br>DEATHS. | ACTUAL TO PROB- ABLE Loss.            |
|-----------------------------|--|--|---------------------------------|--|---|---|--|---------------------------------------|
| 12<br>13<br>14<br>15<br>16  | .3<br>2.9<br>39.7<br>70.6<br>123.3                       | \$ 990<br>10,580<br>141,710<br>227,810<br>358,558                  |                                 | <br>.02<br>.30<br>.54<br>.95                   | \$ 5,000  | \$ 7<br>79<br>1,079<br>1,740<br>2,745               | 1.851                                    | 2.874                                 |
| 17<br>18<br>19<br>20        | 208.1<br>356.9<br>569.4<br>930.5                         | 569,871<br>918,581<br>1,506,709<br>2,530,255                       | 2<br>I<br>6                     | 1.60<br>2.76<br>4.44<br>7.28                   | 13,500<br>1,000<br>10,100<br>46,575                 | 4,383<br>7,106<br>11,704<br>19,762                  | 1.250<br>.362<br>1.351<br>1.511          | 3.080<br>.141<br>.863<br>2.357        |
| 2 I<br>22<br>23<br>24<br>25 | 1,590.6<br>2,431.7<br>3,491.1<br>4,679.0<br>5,941.4      | 4,378,434<br>6,806,004<br>10,065,405<br>13,899,871<br>18,068,069   | 17<br>15<br>25<br>24<br>41      | 12.51<br>19.25<br>27.90<br>37.47<br>47.88      | 37,567<br>30,800<br>64,800<br>69,200<br>125,600     | 34,414<br>53,857<br>80,128<br>111,341<br>145,638    | 1.369<br>.779<br>.896<br>.641            | 1.092<br>.572<br>.809<br>.622<br>.862 |
| 26<br>27<br>28<br>29<br>30  | 7,283.9<br>8,725.0<br>10,163.4<br>11,523.8<br>12,958.0   | 22,708,488<br>27,397,449<br>32,418,700<br>37,390,625<br>43,073,271 | 63<br>59<br>63<br>76<br>73      | 59.22<br>71.54<br>84.05<br>96.10               | 223,780<br>167,750<br>197,590<br>230,750<br>244,135 | 184,618<br>224,652<br>268,080<br>311,857<br>363,099 | 1.064<br>.825<br>.750<br>.791<br>.668    | .747<br>.737<br>.740<br>.672          |
| 31<br>32<br>33<br>34        | 14,078.3<br>15,417.6<br>16,445.5<br>17,384.1<br>18,243.8 | 47,379,467<br>52,189,059<br>56,085,597<br>59,812,895<br>63,278,780 | 105<br>114<br>108<br>118        | 119.83<br>132.75<br>143.40<br>153.50           | 352,709<br>410,205<br>405,833<br>497,925            | 403,218<br>449,213<br>489,110<br>528,151<br>566,334 | .876<br>.859<br>.753<br>.769             | .875<br>.913<br>.830<br>.943          |
| 35<br>36<br>37<br>38<br>39  | 18,874.5<br>19,401.4<br>19,700.6<br>19,979.0             | 66,440,766<br>68,812,542<br>70,491,225<br>71,771,434               | 151<br>120<br>123<br>157<br>141 | 163.28<br>171.57<br>179.09<br>185.37<br>192.33 | 571,857<br>421,100<br>476,945<br>595,490<br>506,049 | 604,504<br>635,260<br>663,290<br>688,293            | .925<br>.699<br>.687<br>.847             | .697<br>.751<br>.898                  |
| 40<br>41<br>42<br>43<br>44  | 20,078.2<br>19,959.6<br>19,642.8<br>19,277.9<br>18,750.2 | 72,572,666<br>72,893,717<br>72,222,136<br>71,540,732<br>70,640,393 | 159<br>172<br>166<br>162<br>183 | 196.59<br>199.82<br>201.38<br>202.83<br>203.07 | 609,518<br>713,723<br>722,453<br>564,229<br>702,686 | 710,563<br>729,616<br>740,299<br>752,579<br>765,029 | .809<br>.861<br>.824<br>.799             | .858<br>.978<br>.976<br>.750          |
| 45<br>46<br>47<br>48<br>49  | 18,352.1<br>17,799.6<br>16,990.1<br>16,389.8<br>15,640.9 | 69,208,299<br>68,186,479<br>66,417,345<br>64,849,560<br>62,644,549 | 178<br>155<br>164<br>170<br>183 | 204.81<br>205.77<br>203.88<br>205.05<br>204.85 | 698,255<br>622,813<br>674,632<br>732,635<br>741,838 | 772,286<br>788,244<br>797,033<br>811,238            | .869<br>.753<br>.804<br>.829             | .904<br>.790<br>.846<br>.903          |
| 50<br>51                    | 14,835.3   | 60,171,859 57,112,592  | 201                             | 204.30 202.85                                  | 741,838<br>816,450<br>767,793                       | 821,252<br>829,170<br>830,400                       | .984                                     | .903<br>.985<br>.925                  |

# TABLE II.—(Continued).

|          |                   |                 |                |  |              |  | RA                           | TIO.                |
|----------|-------------------|-----------------|----------------|--|--------------|--|------------------------------|---------------------|
| AGE.     | Years of<br>Life. | Amount Insured. | ACTUAL DEATHS. | PROBABLE<br>DEATHS,<br>AMERICAN<br>EXPERIENCE. | ACTUAL LOSS. | Probable<br>Loss,<br>American<br>Experience. | ACTUAL TO PROB- ABLE DEATHS. | TO<br>PROB-<br>ABLE |
| 52       | 13,088:3          | \$53,897,842    | 163            | 201.45   | \$682,430    | \$829,442                                    | .809                         | .823                |
| 53       | 12,160.4          | 50,485,506      | 190            | 198.58   | 812,586      | 824,340                                      | .957                         | .986                |
| 54       | 11,343.5          | 47,153,378      | 150            | 197.37   | 653,220      | 819,401                                      | .760                         | .797                |
| 55       | 10,511.1          | 44,050,519      | 167            | 195.20   | 748,625      | 818,029                                      | .856                         | .915                |
| 56       | 9,701.5           | 40,993,904      | 161            | 192.91   | 772,420      | 814,989                                      | .835                         | .948                |
| 57       | 8,911.4           | 37,875,879      | 175            | 190.15   | 795,515      | 808,250                                      | .920                         | .984                |
| 58       | 8,101.6           | 34,588,397      | 168            | 185.88   | 797,759      | 793,432                                      | .904                         | 1.005               |
| 59       | 7,318.0           | 31,305,089      | 165            | 180.88   | 792,208      | 773,853                                      | .912                         | 1.024               |
| 60       | 6,579.9           | 28,409,950      | 148            | 175.62   | 583,165      | 758,271                                      | .843                         | .769                |
| 61       | 5,828.6           | 25,205,967      | 152            | 168.66   | 675,815      | 726,215                                      | .901                         | .931                |
| 62       | 5,171.2           | 22,179,098      | 125            | 161.81   | 600,279      | 693,988                                      | .773                         | .865                |
| 63       | 4,549.8           | 19,324,049      | 152            | 154.45   | 653,660      | 655,888                                      | .984                         | .997                |
| 64       | 3,980.7           | 16,658,751      | 128            | 146.79   | 616,755      | 614,209                                      | .872                         | 1.004               |
| 65       | 3,574.8           | 14,981,699      | 118            | 143.44   | 578,975      | 602,683                                      | .823                         | .961                |
| 66       | 3,043.6           | 12,508,953      | 116            | 133.04   | 444,845      | 546,776                                      | .872                         | .814                |
| 67       | 2,584.9           | 10,558,768      | IOI            | 123.19   | 399,600      | 503,125                                      | . 820                        | .794                |
| 68       | 2,142.0           | 8,776,139       | 103            | 111.39   | 455,062      | 456,357                                      | .925                         | .997                |
| 69       | 1,758.3           | 7,099,371       | 86             | 99.83  | 354,890      | 402,968                                      | .861                         | .881                |
| 70       | 1,422.6           | 5,757,732       | 91             | 88.20  | 379,700      | 355,941                                      | 1.032                        | 1.067               |
| 71       | 1,146.5           | 4,656,500       | 63             | 77.59  | 242,345      | 315,058                                      | .812                         | .769                |
| 72       | 936.2             | 3,734,066       | 52             | 69.02  |              | 275,210                                      | .753                         | .965                |
| 73       | 713.5             | 2,722,122       | 53             | 57.19  | 213,290      | 218,316                                      | .927                         | .977                |
| 74       | 557.7             | 2,061,178       | 53             | 48.52  | 195,130      | 181,600                                      | 1.092                        | 1.074               |
| 75       | 422.8             | 1,575,441       | 3 I            | 39.89  | 119,560      | . 148,673                                    | .777                         | .804                |
| 76       | 305.7             | 1,089,580       | 40             | 31.28  | 132,190      | . 111,478                                    | 1.279                        | 1.186               |
| 77       | 221.9             | 770,870         | 19             | 24.53  | 49,950       | 85,605                                       | .775                         | . 584               |
| 78       | 161.3             | 533,138         | 28             | 19.49  | 110,570      | 64,414                                       | 1.437                        | 1.717               |
| 79       | 120.9             | 377,675         | 6              | 15.93  | 21,200       | 49,749                                       | .377                         | .426                |
| 80       | 90.9              | 274,585         | 8              | 13.12  | 27,200       | 39,663                                       | .610                         | .686                |
| 81       | 67.1              | 186,965         | 16             | 10.65  | 46,100       | 29,656                                       | 1.502                        | 1.555               |
| 82       | 41.1              | 131,275         | 8              | 7.16   | 19,500       | 22,880                                       | 1.117                        | .852                |
| 83       | 32.2              | 117,276         | 5              | 6.17   | 15,000       | 22,466                                       | .810                         | .668                |
| 84       | 23.3              | 77,890          | 2              | 4.92   | 5,000        | 16,464                                       | .406                         | .304                |
| 85<br>86 | 18.4<br>10.8      | 58,590          | 2<br>6         | 4.34   | 10,000       | 13,803                                       | .461                         | .734                |
| 87       |                   | 36,440          |                | 2.87   | 19,000       | 9,679  | 2.091                        | 1.963               |
| 88       | 5.5               | 14,250          | 2              | 1.67   | 4,500        |  | 1.198                        | 1.042               |
|          | 2.0               | 5,000<br>6,000  | • •            | .69  | • • • •      | 1,733  |                              |                     |
| 89<br>90 | 3.0               | 3,900           |                | 1.19   | 2.000        | 2,376  | 050                          | 1 600               |
| 91       | 2.3               | 3,000           | I              | 1.05<br>1.06                                   | 3,000        | 1,773  | .952                         | 1.692               |
| 92       | 1.0               | 2,000           |                | .63  | • • • •      | 1,597  |                              |                     |
| 93       | 1.0               | 2,000           |                |  | * * * *      | 1,269  |                              |                     |
|          |                   |                 | • •            | .73  | • • • •      | 1,468  | • • • •                      |                     |
| Totals   | 568,940.6         | \$2,117,444,204 | 6,739          | 7,947.89                                       | \$27,369,920 | \$30,618,775                                 | .848                         | .894                |

TABLE III.

#### SYNOPSIS OF TABLE II.

|         |                   |                 |                |                                       |              |  | RA                           | TIO.                                   |
|---------|-------------------|-----------------|----------------|---------------------------------------|--------------|--|------------------------------|--|
| AGE.    | YEARS OF<br>LIFE. | Amount Insured. | ACTUAL DEATHS. | PROBABLE DEATHS, AMERICAN EXPERIENCE. | ACTUAL LOSS. | Probable<br>Loss,<br>American<br>Experience. | ACTUAL TO PROB- ABLE DEATHS. | ACTUAL<br>TO<br>PROB-<br>ABLE<br>Loss. |
| 12-20   | 2,301.7           | \$ 6,265,064    | 21             | 18                                    | \$ 76,175    | \$ 48,605                                    | 1.167                        | 1.567                                  |
| 21-25   | 18,133.8          | 53,217,783      | 122            | 145                                   | 327,967      | 425,378                                      | .841                         | .771                                   |
| 26–30   | 50,654.1          | 162,988,533     | 334            | 420                                   | 1,064,005    | 1,352,306                                    | .795                         | .787                                   |
| 31-35   | 81,569.3          | 278,745,798     | 596            | 713                                   | 2,238,529    | 2,436,026                                    | .836                         | .919                                   |
| 36–40   | 98,033.7          | 350,088,633     | 700            | 925                                   | 2,609,102    | 3,301,910                                    | .757                         | .790                                   |
| 41-45   | 95,982.6          | 356,505,277     | 861            | 1,012                                 | 3,401,346    | 3,759,809                                    | .851                         | .905                                   |
| 46–50   | 81,655.7          | 322,269,792     | 873            | 1,024                                 | 3,588,368    | 4,046,937                                    | .853                         | .887                                   |
| 51-55   | 61,053.7          | 252,699,837     | 848            | 996                                   | 3,664,654    | 4,121,612                                    | .851                         | .889                                   |
| 56–60   | 40,612.4          | 173,173,219     | 817            | 925                                   | 3,741,058    | 3,948,795                                    | .883                         | .947                                   |
| 61–65   | 23,105.1          | 98,349,564      | 675            | 775                                   | 3,125,484    | 3,292,983                                    | .871                         | .949                                   |
| 66–70   | 10,951.4          | 44,700,963      | 497            | 556                                   | 2,034,097    | 2,265,167                                    | .894                         | .898                                   |
| 71-75   | 3,776.7           | 14,749,307      | 252            | 292                                   | 1,035,925    | 1,138,857                                    | .863                         | .910                                   |
| 76-80   | 900.7             | 3,045,848       | 101            | 104                                   | 341,110      | 350,909                                      | .971                         | .972                                   |
| 81-85   | 182.1             | 571,996         | 33             | 33                                    | 95,600       | 105,269                                      | 1.000                        | .908                                   |
| 86–93   | 27.6              | 72,590          | 9              | 10                                    | 26,500       | 24,212                                       | .900                         | 1.095                                  |
| Totals. | 568,940.6         | \$2,117,444,204 | 6,739          | 7,948                                 | \$27,369,920 | \$30,618,775                                 | .848                         | .894                                   |

TABLE IV.

Experience of The Mutual Benefit Life Insurance Company from 1845 to 1879, inclusive, during First and Second Years of Membership.

| AGE AT<br>EXPOSURE. | YEARS OF LIFE. | ACTUAL DEATHS. | PPOBABLE<br>DEATHS,<br>AMERICAN<br>EXPERIENCE. | RATIO. ACTUAL TO PROBABLE DEATHS. | AGE AT EXPOSURE. | YEARS OF LIFE. | ACTUAL DEATHS. | PPOBABLE DEATHS, AMERICAN EXPERIENCE. | RATIO.<br>ACTUAL TO<br>PROBABLE<br>DEATHS. |
|---------------------|----------------|----------------|--|-----------------------------------|------------------|----------------|----------------|---------------------------------------|--|
| 12                  | 3              |                |  |                                   | 41               | 2,811.2        | -25            | 28.13                                 | .889                                       |
| 13                  | 2.9            |                | .02  |                                   | 42               | 2,549.9        | 19             | 26.14                                 | .727                                       |
| 14                  | 38.7           |                | .29  |                                   | 43               | 2,357.8.       | i9             | 24.80                                 | .766                                       |
| 15                  | 54.9           | I              | .42  | 2.386                             | 44               | 2,195.5        | 24             | 23.77                                 | 1.009                                      |
| 16                  | 81.0           |                | .62  |                                   | 45               | 2,189.4        | 13             | 24.44                                 | .532                                       |
| 17                  | 131.6          |                | 1.01   |                                   | 46               | 2,085.5        | 10             | 24.11                                 | .415                                       |
| 18                  | 232.9          | I              | 1.80   | .556                              | 47               | 1,820.7        | 15             | 21.85                                 | .687                                       |
| 19                  | 343.3          | 3              | 2.67   | 1.125                             | 48               | 1,642.8        | 13             | 20.55                                 | .633                                       |
| 20                  | 571.8          | 6              | 4.46   | 1.344                             | 49               | 1,444.9        | ΙI             | 18.94                                 | .581                                       |
| 2 I                 | 1,010.7        | 10             | 7.94   | 1.260                             | 50               | 1,375.7        | 18             | 18.96                                 | .949                                       |
| 22                  | 1,424.4        | 9              | 11.26  | .799                              | 51               | 1,202.3        | 14             | 17.48                                 | .801                                       |
| 23                  | 1,866.0        | 14             | 14.85  | .943                              | 52               | 1,031.4        | 10             | 15.87                                 | .630                                       |
| 24                  | 2,280.0        | 6              | 18.27  | .328                              | 53               | 924.2          | 8              | 15.10                                 | .530                                       |
| 25                  | 2,596.3        | 23             | 20.94  | 1.098                             | 54               | 840.0          | 9              | 14.61                                 | .616                                       |
| 26                  | 2,875.9        | 22             | 23.38  | .941                              | 55               | 696.2          | 7              | 12.93                                 | .541                                       |
| 27                  | 3,259.0        | 22             | 26.71  | .824                              | 56               | 653.6          | 10             | 13.00                                 | .769                                       |
| 28                  | 3,421.8        | 17             | 28.28  | .601                              | 5 <i>7</i>       | 534.8          | 13             | 11.41                                 | 1.139                                      |
| 29                  | 3,504.1        | 16             | 29.24  | .547                              | 58               | 459.1          | 7              | 10.54                                 | .665                                       |
| 30                  | 3,772.0        | 14             | 31.79  | .440                              | 59               | 400.2          | 7              | 9.89                                  | .707                                       |
| 31                  | 3,760.0        | 19             | 32.00  | .594                              | 60               | 364.4          | 3              | .9.73                                 | .308                                       |
| 32                  | 3,851.2        | 24             | 33.15  | .724                              | 61               | 277.7          | 4              | 8.02                                  | .499                                       |
| 33                  | 3,878.4        | 20             | 33.81  | .592                              | 62               | 214.9          | 4              | 6.72                                  | .595                                       |
| 34                  | 3,779.1        | 21             | 33.37  | .629                              | 63               | 184.9          | 6              | 6.28                                  | .956                                       |
| 35                  | 3.758.3        | 27             | 33.62  | .803                              | 64               | 18i.3          | I              | 6.69                                  | .150                                       |
| 36                  | 3,563.9        | 23             | 32.39  | .710                              | 65               | 202. I         | 5              | 8.11                                  | .616                                       |
| 37                  | 3,478.5        | 15             | 32.12  | .467                              | 66               | 67.4           | 2              | 2.95                                  | .679                                       |
| 38                  | 3,321.5        | 14             | 31.25  | .448                              | 67               | 7. I           | I              | 0.34                                  | 2.956                                      |
| 39                  | 3,166.7        | 2 I            | 30.36  | .692                              | 68               | 2.4            |                | 0.12                                  |  |
| 40                  | 3,084.2        | 15             | 30.2.1   | .497                              |                  |                |                |                                       |  |

#### SYNOPSIS OF ABOVE TABLE.

| AGE AT EXPOSURE. | Years of Life. | ACTUAL DEATHS. | PROBABLE DEATHS, AMERICAN EXPERIENCE | RATIO. ACTUAL TO PROBABLE DEATHS |
|------------------|----------------|----------------|--------------------------------------|----------------------------------|
| 12 -20           | 1,457.4        | II ·           | 11.29                                | •974                             |
| 21-25            | 9,177.4        | 62             | 73.26                                | .846                             |
| 26-30            | 16,832.8       | 91             | 139.40                               | .653                             |
| 31-35            | 19,027.0       | III            | 165.95                               | .669                             |
| 36-40            | 16,614.8       | 88             | 156.33                               | .563                             |
| 41-45            | 12,103.8       | 100            | 127.28                               | .786                             |
| 46-50            | 8,369.6        | 67             | 104.41                               | .642                             |
| 51-55            | 4,694.1        | 48             | 75.99                                | .632                             |
| 56–60            | 2,412.1        | 40             | 54.57                                | •733                             |
| 61–68            | 1,137.8        | 23             | 39.23                                | .586                             |

TABLE V.

Experience of The Mutual Benefit Life Insurance Company from 1845 to 1879, inclusive, excluding First Fifteen Years of Membership.

| AGE AT EXPOSURE. | Years of<br>Life. | ACTUAL DEATHS. | PROBABLE DEATHS, AMERICAN EXPERIENCE. | RATIO.<br>ACTUAL TO<br>PROBABLE<br>DEATHS. | AGE AT<br>Exposure. | YEARS OF LIFE. | ACTUAL DEATHS. | PROBABLE DEATHS, AMERICAN EXPERIENCE. | RATIO.<br>ACTUAL TO<br>PROBABLE<br>DEATHS. |
|------------------|-------------------|----------------|---------------------------------------|--|---------------------|----------------|----------------|---------------------------------------|--|
| 28               | 6.0               |                | .05                                   |  | 61                  | 1,892.0        | 47             | 54.64                                 | .860                                       |
| 29               | 9.0               |                | .08                                   |  | 62                  | 1,750.3        | 43             | 54.77                                 | .785                                       |
| 30               | 12.0              |                | .10                                   |  | 63                  | 1,583.4        | 58             | 53.75                                 | 1.079                                      |
| 31               | 15.6              |                | .13                                   |  | 64                  | 1,426.2        | 50             | 52.59                                 | .951                                       |
| 32               | 33.0              |                | .28                                   |  | 65                  | 1,329.0        | 5 I            | 53.33                                 | .956                                       |
| 33               | 36.2              |                | .3I                                   |  | 66                  | 1,162.1        | 42             | 50.79                                 | .827                                       |
| 34               | 54.4              | I              | .48                                   | 2.082                                      | 67                  | 1,028.9        | 45             | 49 02                                 | .918                                       |
| 35               | I 10. I           | 2              | .98                                   | 2.030                                      | 68                  | 902.4          | 52             | 46.93                                 | 1.108                                      |
| 36               | 178.6             | I              | 1.62                                  | .616                                       | 69                  | 768. I         | 40             | 43.60                                 | .917                                       |
| 37               | 289.4             |                | 2.67                                  |  | 70                  | 670. і         | 39             | 41.54                                 | .939                                       |
| 38               | 442.4             | 4              | 4.16                                  | .961                                       | 71                  | 570. I         | 30             | 38.58                                 | .778                                       |
| 39               | 584.8             | I              | 5.61                                  | .178                                       | 72                  | 488.4          | 27             | 36.01                                 | .750                                       |
| 40               | 791.6             | 6              | 7.75                                  | .774                                       | 73                  | 392.8          | 29             | 31.49                                 | .921                                       |
| 41               | . 996.7           | IO             | 9.97                                  | 1.003                                      | 74                  | 328.9          | 31             | 28.62                                 | 1.083                                      |
| 42               | 1,181.3           | II             | 12.11                                 | .908                                       | 75                  | 268.9          | 2 I            | 25.38                                 | .827                                       |
| 43               | 1,319.2           | 12             | 13.87                                 | .865                                       | 76                  | 204.5          | 3 I            | 20.92                                 | 1.482                                      |
| 44               | 1,517.7           | 18             | . 16.44                               | 1.095                                      | 77                  | 169.1          | 12             | 18.78                                 | .639                                       |
| 45               | 1,722.7           | 16             | 19.23                                 | .832                                       | 78                  | 133.9          | 23             | 16.18                                 | 1.422                                      |
| 46               | 1,899.3           | 18             | 21.96 .                               | .820                                       | 79                  | 113.9          | 6              | 15.00                                 | .400                                       |
| 47               | 2,059.3           | 23             | 24.71                                 | .931                                       | 80                  | 87.9           | 8              | 12.70                                 | .630                                       |
| 48               | 2,184.1           | 26             | 27.32                                 | .952                                       | 81                  | 66. I          | 15             | 10.48                                 | 1.431                                      |
| 49               | 2,300.5           | 37             | 30.15                                 | 1.227                                      | 82                  | 41.1           | 8              | 7.16                                  | 1.117                                      |
| 50               | 2,370.9           | 34             | 32.67                                 | 1.041                                      | 83                  | 32.2           | 5              | 6.17                                  | .811                                       |
| 5 I              | 2,448.3           | 34             | 35.60                                 | •955                                       | 84                  | 23.3           | , 2            | 4.92                                  | .406                                       |
| 52               | 2,501.6           | 28             | 38.50                                 | .727                                       | 85                  | 18.4           | 2              | 4.33                                  | .461                                       |
| 53               | 2,466.6           | 47             | 40.29                                 | 1.167                                      | 86                  | 10.8           | 6              | 2.87                                  | 2.091                                      |
| 54               | 2,446.2           | 28             | 42.55                                 | .658                                       | 87                  | 5.5            | I              | 1.67                                  | .600                                       |
| 55               | 2,414.9           | 51             | 44.85                                 | 1.137                                      | 88                  | 2.0            | • •            | .69                                   |  |
| 56               | 2,393.7           | 39             | 47.60                                 | .819                                       | 89                  | 3.0            |                | 1.19                                  | · · · ·                                    |
| 57               | 2,302.1           | 49             | 49.12                                 | .998                                       | 90                  | 2.3            | I              | 1.05                                  | .957                                       |
| 58               | 2,209.5           | 50             | 50.68<br>51.80                        | .987                                       | 91                  | 2.0            | • •            | 1.06                                  |  |
| 59<br>60         | 2,095.3           | 36             | -                                     | .695                                       | 92                  | 1.0            | V              | .63                                   |  |
| 00               | 2,023.6           | 49             | 54.02                                 | .907                                       | 93                  | 1.0            | • •            | .73                                   |  |

#### SYNOPSIS OF ABOVE TABLE.

| AGE AT EXPOSURE.                          | Years of Life.                                      | ACTUAL DEATHS.              | Probable Deaths, American. Experience.     | RATIO. ACTUAL TO PROBABLE DEATHS. |
|---|---|-----------------------------|--|-----------------------------------|
| 28-35<br>36-40<br>41-45<br>46-50<br>51-55 | 276.3<br>2,286.8<br>6,737.6<br>10,814.1<br>12,277.6 | 3<br>12<br>67<br>138<br>188 | 2.41<br>21.81<br>71.62<br>136.81<br>201.79 | 1.245<br>.550<br>.935<br>1.009    |
| 56–60<br>61–65<br>66-70<br>71–75          | 11,024.2<br>7,980.9<br>4,531.6<br>2,049.1           | 223<br>249<br>218           | 253.22<br>269.08<br>231.88<br>160.08       | .881<br>.925<br>.940<br>.862      |
| 76-86<br>81-85<br>86-93                   | 709.3<br>181.1<br>27.6                              | 138<br>80<br>32<br>8        | 83.58<br>33.06<br>9.89                     | •957<br>.968<br>.809              |

# TABLE VI.

Percentage of Mortality  $\left(\frac{dx}{tx}\right)$  according to the most approved Standard Tables, and The Mutual Benefit Experience (Adjusted), from 1845 to 1879, inclusive.

|      |             |            |                  | . MUTU                 | JAL BENEFIT EX                              | PERIENCE (ADJU                                     | JSTED).                            |     |
|------|-------------|------------|------------------|------------------------|---|--|------------------------------------|-----|
| AGE. | AMERICAN    | "OLD"      | "NEW" ACTUARIES. | DERIVED                | FROM NUMBER O                               | F DEATHS.  | GENERAL EXPERIENCE,                | AGI |
|      | EXPERIENCE. | Actuaries. | HMF              | General<br>Experience. | First and Second<br>Years of<br>Membership. | Excluding First<br>Fifteen Years<br>of Membership. | DERIVED<br>FROM AMOUNT<br>OF LOSS. |     |
| 25.  | .008065     | .007770    | .007002          | .006289                | .005442                                     |  | .006610                            | 25  |
| 26   | .008130     | .007887    | .007095          | .006339                | .005474                                     | * * * * * * *                                      | .006663                            | 26  |
| 27   | .008197     | .008006    | .007333          | .006395                | .005511                                     |  | .006722                            | 27  |
| 28   | .008264     | .008139    | .007586          | .006457                | .005551                                     |  | .006787                            | 28  |
| 29   | .008345     | .008275    | .007833          | .006525                | .005595                                     |  | .006859                            | 29  |
| 30   | .008427     | .008425    | .008064          | .006601                | .005645                                     | .007523  | .006939                            | 30  |
| 31   | .008510     | .008578    | .008220          | .006685                | .005700                                     | .007609  | .007028                            | 31  |
| 32   | .008607     | .008747    | .008368          | .006779                | .005761                                     | .007703  | .007126                            | 32  |
| 33   | .008718     | .008919    | .008554          | .006883                | .005829                                     | .007809  | .007235                            | 33  |
| 34   | .008831     | .009095    | .008755          | .006998                | .005905                                     | .007925  | .007357                            | 34  |
| 35   | .008946     | .009288    | .008996          | .007125                | .005989                                     | .008055  | .007491                            | 35  |
| 36   | .009089     | .009485    | .009326          | .007267                | .006082                                     | .008198  | .007640                            | 36  |
| 37   | .009234     | .009687    | .009677          | .007424                | .006186                                     | .008357  | .007805                            | 37  |
| 38   | .009408     | .009906    | .000010.         | .007598                | .006302                                     | .008534  | .007989                            | 38  |
| 39   | .009586     | .010131    | .010271          | .007791                | .006430                                     | .008730  | .008192                            | 39  |
| 40   | .009794     | .010362    | .010501          | .008005                | .006573                                     | .008947  | .008417                            | 40  |
| 41   | .010008     | .010612    | .010687          | .008243                | .006732                                     | .000188  | .008668                            | 41  |
| 42   | .010252     | .010894    | .010915          | .008506                | .006908                                     | .009455  | .008945                            | 42  |
| 43   | .010517     | .011257    | .011277          | .008798                | .007104                                     | .009752  | .009253                            | 43  |
| 44   | .010829     | .011697    | .011727          | .009123                | .007322                                     | .010081  | .009594                            | 44  |
| 45   | .011163     | .012212    | .012321          | .009482                | .007565                                     | .010445  | .009973                            | 45  |
| 46   | .011562     | .012839    | .013014          | .009881                | .007835                                     | .010850  | .010393                            | 46  |
| 47   | .012000     | .013516    | .013719          | .010323                | .008134                                     | .011299  | .010859                            | 47  |
| 48   | .012509     | .014260    | .014424          | .010814                | .008467                                     | .011796  | .011375                            | 48  |
| 49   | .013106     | .015061    | .015115          | .011358                | .008838                                     | .012348  | .011949                            | 49  |
| 50   | .013781     | .015939    | .015778          | .011962                | .009250                                     | .012961  | .012584                            | 50  |
| 5 I  | .014541     | .016898    | .016512          | .012631                | .009708                                     | .013640  | .013289                            | 51  |
| 52   | .015389     | .017947    | .017322          | .013374                | .010217                                     | .014393  | .014071                            | 52  |
| 53   | .016333     | .019093    | .018315          | .014198                | .010782                                     | .015229  | .014939                            | 53  |
| 54   | .017396     | .020313    | .019448          | .015111                | .011412                                     | .016155  | .015901                            | 54  |
| 55   | .018571     | .021664    | .020655          | .016125                | .012111                                     | .017183  | .016968                            | 55  |
| 56   | .019885     | .023126    | .021960          | .017249                | .012888                                     | .018324  | .018152                            | 56  |
| 57   | .021335     | .024679    | .023358          | .018496                | .013753                                     | .019588  | .019465                            | 57  |
| 58   | .022936     | .026386    | .024892          | .019878                | .014714                                     | .020991  | .020921                            | 58  |
| 59   | .024720     | .028247    | .026695          | .021412                | .015782                                     | .022547  | .022536                            | 59  |
| бо   | .026693     | .030336    | .028729          | .023114                | .016970                                     | .024272  | .024328                            | 60  |

# TABLE VI.—(Continued).

|          |                    | · .                |                  | MUTU                   | JAL BENEFIT EX                              | PERIENCE (ADJU                                     | USTED).                      |          |
|----------|--------------------|--------------------|------------------|------------------------|---|--|------------------------------|----------|
| AGE.     | AMERICAN           | "OLD"              | "NEW" ACTUARIES. | DERIVED                | FROM NUMBER C                               | F DEATHS.  | GENERAL<br>EXPERIENCE,       | AGE.     |
|          | EXPERIENCE.        | ACTUARIES.         | Нмғ              | General<br>Experience. | First and Second<br>Years of<br>Membership. | Excluding First<br>Fifteen Years<br>of Membership. | DERIVED FROM AMOUNT OF LOSS. |          |
| _        | 200                |                    |                  |                        |   | - 06   |                              |          |
| бі       | .028880            | .032612            | .031043          | .025001                | .018290                                     | .026186  | .026315                      | 61       |
| 62       | .031292            | .035120            | .033657          | .027094                | .019758                                     | .028309  | .028519                      | 62       |
| 63       | .033943            | .037840            | .036468          | .029415                | .021490                                     | .030664  | .030964                      | 63       |
| 64<br>65 | .036873<br>.040129 | .040826<br>.044082 | .039374          | .031990<br>.034846     | .023205                                     | .033276  | .033675                      | 64<br>65 |
| 66       | .043707            | .044082            | .042331          | .034640                | .025222                                     | .0301/3  | .030033                      | 66       |
| 67       | .047647            | .051474            | .048665          | .041528                | .029957                                     | .042951  | .043719                      | 67       |
| 68       | .052002            | .05 5630           | .052044          | .045426                | .032729                                     | .042931  | .043/19                      | 68       |
| 69       | .056762            | .060087            | .055988          | .049749                | .032/29                                     | .051289  | .052376                      | 69       |
| 70       | .061993            | .064933            | .060956          | .054544                | 1   | .056153  | .057425                      | 70       |
| 7 I      | .067665            | .070158            | .066862          | .059862                |   | .061547  | .063026                      | 71       |
| 72       | .073733            | .07 5805           | .073682          | .065761                |   | .067531  | .069238                      | 72       |
| 73       | .080178            | .081884            | .081540          | .072304                |   | .074168  | .076128                      | 73       |
| 74       | .087028            | .088468            | .090042          | .079562                |   | .081529  | .083770                      | 74       |
| 75       | .094371            | .095560            | .097988          | .087611                |   | .089695  | .092247                      | 75       |
| 76       | .102311            | .103179            | .105812          | .096540                |   | .098751  | .101649                      | 76       |
| 77       | .111064            | .111469            | .113220          | .106439                |   | .108800  | .112076                      | 77       |
| 78       | .120827            | .120444            | .121100          | .117429                |   | .119940  | .123646                      | 78       |
| 79       | .131734            | .130065            | .129380          | .129609                |   | .132300  | . 1 36476                    | 79       |
| 80       | .144466            | .140406            | .138680          | .143129                |   | .146000  | .150706                      | 80       |
| 81       | .158605            | .151436            | . 1.49070        | .158119                |   | :161210  |                              | 81       |
| 82       | .174297            | .163194            | .160680          | .174139                |   | .178070  |                              | 82       |
| 83       | .191561            | .175912            | .174260          | .193179                |   | .196780  |                              | 83       |
| 84       | .211359            | .189678            | .188570          | .213639                |   | .217530  |                              | 84       |
| 85<br>86 | .235552            | .205095            | .202670          | .236319                |   | .240540  |                              | 85       |
|          | .265681            | .222480            | .217320          | .261489                |   |  |                              | 86       |
| 87       | .303020 •          | .242234            | .232480          | .289399                |   |  |                              | 87       |
| 89       | .395863            | .2052/4            | .259230          | .320359                | *****                                       |  |                              | 88       |
| 90       | .454545            | .323730            | .259230          | .392879                |   |  |                              | 89       |
| 91       | .532466            | .360987            | .297080          | .435029                |   |  |                              | 90       |
| 92       | .634259            | .405263            | .310690          | .481889                |   |  |                              | 91<br>92 |
| 93       | .734177            | .457227            | .330290          | .533859                |   | • • • • •  |                              | 93       |
| 94       | .857143            | .516304            | .356940          | .591509                |   |  |                              | 93<br>94 |
| 95       | 1.000000           | .584270            | .364410          | .655449                |   |  |                              | 95       |
| 96       |                    | .648649            | .373340          | .726369                |   |  |                              | 95<br>96 |
| 97       |                    | .692308            | .468080          | .805039                |   |  |                              | 97       |
| 98       |                    | .750000            | .660000          | .892289                | ,   |  |                              | 98       |
| 99       |                    | 1.000000           | 1.000000         | 1.000000               |   |  |                              | 99       |
|          |                    |                    |                  | 4                      |   |  |                              |          |

TABLE VII.

Actual and Probable Mortality of The Mutual Benefit Life Insurance Company from 1845 to 1879, inclusive, showing Effect of Selection.

|   |   |  | 1   | 1   | 10  |  |  | RATIO.  |  |
|---|---|--|---|---|---|--|--|---|--|
| YEAR OF<br>MEMBER-<br>SHIP.   | YEARS<br>OF LIFE.   | AMOUNT INSURED.  | PROBABLE DEATHS, AMERICAN EXPERIENCE.   | ACTUAL DEATHS.  | PROBABLE<br>Loss,<br>AMERICAN<br>EXPERIENCE.  | ACTUAL LOSS.   |  | UAL   | ACTUAL TO PROB- ABLE Loss.   |
| 1st 2d 3d 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22d 23d 24th 25th 26th 27th 28th 29th 30th 31st | 32,438.9<br>59,387.9<br>51,839.6<br>47,189.0<br>43,285.3<br>39,685.3<br>36,722.6<br>34,229.3<br>31,876.6<br>29,546.5<br>27,084.1<br>24,156.0<br>20,625.0<br>17,648.4<br>14,329.9<br>11,160.0<br>7,415.3<br>5,654.9<br>4,755.1<br>4,229.4<br>3,567.0<br>2,997.2<br>2,618.9<br>2,380.3<br>2,194.8<br>2,004.3<br>1,838.4<br>1,694.7<br>1,539.1<br>1,376.7<br>1,205.1 | \$111,698,799 210,998,933 186,839,345 171,233,462 162,114,759 140,655,352 135,797,483 127,133,846 118,439,114 110,265,971 101,060,598 90,446,198 77,365,703 66,316,471 54,513,292 43,216,916 31,483,547 24,612,774 20,824,107 18,250,669 15,442,305 13,091,826 11,730,559 10,649,523 9,925,080 9,017,322 8,198,428 7,562,008 6,855,968 6,030,723 5,290,640 | 329.47<br>618.39<br>559.38<br>527.13<br>502.29<br>479.08<br>462.34<br>451.07<br>439,74<br>426.97<br>410.15<br>378.88<br>336.17<br>299.09<br>252.36<br>203.99<br>140.11<br>110.95<br>97.97<br>91.90<br>82.77<br>74.04<br>69.18<br>67.08<br>65.89<br>64.25<br>62.24<br>61.31<br>59.40<br>56.65<br>52.67 | 196 445 445 445 457 458 437 375 387 380 337 371 287 274 217 163 133 94 75 90 76 72 75 77 61 82 55 47 66 55 45 | \$1,167,628<br>2,263,190<br>2,087,238<br>1,990,560<br>1,904,531<br>1,830,069<br>1,782,090<br>1,743,853<br>1,697,387<br>1,653,705<br>1,572,488<br>1,450,859<br>1,280,467<br>1,127,757<br>953,056<br>774,422<br>582,366<br>474,301<br>416,345<br>381,481<br>340,863<br>303,998<br>289,871<br>279,719<br>277,053<br>267,598<br>257,198<br>254,109<br>248,458<br>236,443<br>221,223 | \$ 663,903<br>1,501,653<br>1,773,346<br>1,790,260<br>1,847,081<br>1,649,376<br>1,635,243<br>1,631,688<br>1,584,652<br>1,446,115<br>1,589,910<br>1,286,122<br>1,274,351<br>1,059,807<br>917,100<br>623,510<br>540,066<br>468,035<br>328,435<br>402,340<br>333,755<br>298,100<br>308,270<br>324,978<br>223,950<br>390,600<br>228,280<br>158,775<br>305,894<br>219,600<br>200,425 | .595<br>.720<br>.796<br>.867<br>.912<br>.912<br>.811<br>.858<br>.864<br>.789<br>.905<br>.837<br>.854<br>.916<br>.860<br>.799<br>.949<br>.847<br>.765<br>.979<br>.918<br>.972<br>I.084<br>I.148<br>.926<br>I.276<br>.884<br>.767<br>I.111 | .60 .72 .80 .86 .86 .86 .86 .86 .86 .86 .86 .86 .86 | .569<br>.664<br>.850<br>.899<br>.970<br>.901<br>.918<br>.936<br>.934<br>.874<br>1.011<br>.886<br>.995<br>.940<br>.962<br>.805<br>.927<br>.987<br>.789<br>1.055<br>.979<br>.981<br>1.063<br>1.162<br>.808<br>1.460<br>.888<br>.625<br>1.229 |
| 32d<br>33d<br>34th<br>35th  | 977.9<br>740.0<br>433.4<br>113.7  | 4,363,008<br>3,392,723<br>2,009,162<br>617,590   | 46.55<br>. 38.02<br>23.99<br>6.42   | 32<br>35<br>15<br>8   | 198,798<br>167,242<br>107,214<br>35,195   | 100,800<br>171,600<br>53,900<br>38,000   | .687<br>.921<br>.625<br>1.246  | .85<br>.83<br>.76<br>.76                            | .507<br>1.026<br>.503<br>1.080   |
| Totals.   | 568,940.6   | \$2,117,444.204  | 7.947.89  | 6,739   | \$30,618,775  | \$27,369,920   | .848   |   | .894   |

TABLE VIII.

#### SYNOPSIS OF TABLE VII.

|                              |                     |                 |                                       |                   | Ī                                   |              | RA                           | гіо.                                   |
|------------------------------|---------------------|-----------------|---------------------------------------|-------------------|-------------------------------------|--------------|------------------------------|--|
| YEARS OF<br>MEMBER-<br>SHIP. | Years of<br>Life. • | Amount Insured. | PROBABLE DEATHS, AMERICAN EXPERIENCE. | ACTUAL<br>DEATHS. | PROBABLE LOSS, AMERICAN EXPERIENCE. | ACTUAL LOSS. | ACTUAL TO PROB- ABLE DEATHS. | ACTUAL<br>TO<br>PROB-<br>ABLE<br>LOSS. |
| ıst5th                       | 234,140.7           | \$ 842,885,298  | 2,536.66                              | 2,001             | \$ 9,413,147                        | \$ 7,576,243 | .789                         | .805                                   |
| 6th-10th                     | 172,060.3           | 632,291,766     | 2,259.20                              | 1,916             | 8,707,104                           | 7,947,074    | .848                         | .913                                   |
| 11th-15th                    | 103,843.4           | 389,702,262     | 1,676.65                              | 1,466             | 6,384,627                           | 6,127,290    | .874                         | .960                                   |
| 16th-20th                    | 33,214.7            | 138,388,013     | 644.92                                | 555               | 2,628,915                           | 2,362,386    | .861                         | .899                                   |
| 21st-25th                    | 13,758.2            | 60,839,293      | 358.96                                | 361               | 1,491,504                           | 1,489,053    | 1.006                        | .998                                   |
| 26th-30th                    | 8,453.2             | 37,664,449      | 303.85                                | 305               | 1,263,806                           | 1,303,149    | 1.004                        | 1.031                                  |
| 31st-35th                    | 3,470.1             | 15,673,123      | 167.65                                | 135               | 729,672                             | 564,725      | .805                         | .774                                   |
|                              |                     |                 |                                       |                   |                                     |              |                              |  |
| 6th-15th                     | 275,903.7           | 1,021,994,028   | 3,935.85                              | 3,382             | 15,091,731                          | 14,074,364   | .859                         | .933                                   |
| 16th-25th                    | 46,972.9            | 199,227,306     | 1,003.88                              | 916               | 4,120,419                           | 3,851,439    | .912                         | .935                                   |
| 26th-35th                    | 11,923.3            | 53,337,572      | 471.50                                | 440               | 1,993,478                           | 1,867,874    | .933                         | .937                                   |
|                              |                     |                 |                                       |                   |                                     |              |                              |  |
| ıst-2d                       | 91,826.8            | 322,697,732     | 947.86                                | 641               | 3,430,818                           | 2,165,556    | .676                         | .631                                   |
| 3d-15th                      | 418,217.6           | 1,542,181,594   | 5,524.65                              | 4,742             | 21,074,060                          | 19,485,051   | .858                         | .925                                   |
| 16th-35th                    | 58,896.2            | 252,564,878     | 1,475.38                              | 1,356             | 6,113,897                           | 5,719,313    | .919                         | .935                                   |

## TABLE IX.

Mortuary Experience of The Mutual Benefit Life Insurance Company from 1845 to 1879, inclusive, arranged with reference to Years of Issue of Original Policies.

|  |  |  |  |  |  | 1   | RA   | rio.  |
|--|--|--|--|--|--|---|--|---|
| YEAR OF<br>ISSUE.  | YEARS OF<br>LIFE.  | Amount Insured.  | PROBABLE DEATHS, AMERICAN EXPERIENCE.  | ACTUAL DEATHS.   | PROBABLE<br>Loss,<br>AMERICAN<br>EXPERIENCE.   | ACTUAL LOSS.  | ACTUAL<br>TO<br>PROB-<br>ABLE<br>DEATHS.   | ACTUAL<br>TO<br>PROB-<br>ABLE<br>LOSS.  |
| 1845<br>1846<br>1847<br>1848<br>1849<br>1850<br>1851<br>1852<br>1853<br>1854<br>1855<br>1856<br>1857<br>1858<br>1859<br>1860<br>1861<br>1862<br>1863<br>1864<br>1865<br>1866<br>1867<br>1868<br>1869<br>1870<br>1871<br>1872<br>1873<br>1874<br>1875<br>1876 | 8,869.7<br>25,897.6<br>20,279.4<br>13,478.3<br>12,125.2<br>6,702.2<br>4,501.9<br>4,092.7<br>4,123.4<br>3,877.1<br>3,535.6<br>3,681.6<br>4,429.7<br>8,680.9<br>13,094.6<br>13,948.5<br>9,276.0<br>17,891.4<br>34,678.8<br>67,129.8<br>51,325.7<br>48,324.7<br>36,698.9<br>41,246.9<br>27,734.9<br>18,041.4<br>13,715.3<br>10,905.4<br>9,113.6<br>10,301.7<br>9,922.8<br>6,229.1 | \$ 38,684,669<br>91,062,490<br>71,039,429<br>47,001,435<br>40,005,273<br>25,470,797<br>17,536,648<br>17,175,188<br>15,777,430<br>15,579,196<br>15,061,490<br>16,217,111<br>21,248,076<br>35,907,027<br>57,190,026<br>60,459,663<br>47,607,634<br>80,219,274<br>142,531,715<br>219,306,429<br>185,990,307<br>187,019,461<br>140,459,667<br>167,097,314<br>101,509,194<br>61,389,528<br>42,475,094<br>33,456,191<br>26,438,416<br>30,210,362<br>31,075,293<br>19,791,327 | 181<br>525<br>376<br>235<br>195<br>107<br>76<br>62<br>56<br>58<br>49<br>51<br>183<br>127<br>244<br>481<br>923<br>703<br>644<br>500<br>544<br>373<br>221<br>152<br>115<br>95<br>100<br>63 | 184<br>489<br>357<br>236<br>228<br>114<br>59<br>555<br>57<br>59<br>42<br>45<br>101<br>138<br>147<br>92<br>200<br>426<br>798<br>573<br>527<br>418<br>398<br>269<br>162<br>117<br>80<br>73<br>86<br>68<br>51 | \$ 834,012<br>1,862,831<br>1,345,521<br>837,135<br>679,601<br>415,370<br>294,562<br>257,883<br>209,616<br>238,444<br>218,630<br>230,260<br>277,212<br>496,601<br>795,767<br>811,117<br>680,990<br>1,147,291<br>1,969,239<br>3,024,596<br>2,606,336<br>2,599,401<br>2,020,401<br>2,323,282<br>1,450,110<br>847,249<br>486,640<br>360,357<br>285,379<br>318,359<br>327,575 | \$ 801,520<br>1,728,707<br>1,229,175<br>846,125<br>658,160<br>457,860<br>224,940<br>231,100<br>238,118<br>250,915<br>189,900<br>246,200<br>451,449<br>661,746<br>708,960<br>511,975<br>1,044,325<br>1,920,960<br>2,859,948<br>2,253,169<br>2,266,970<br>1,850,315<br>1,939,299<br>1,210,557<br>664,328<br>394,493<br>242,348<br>240,395<br>278,257<br>227,966 | 1.017<br>.931<br>.949<br>1.004<br>1.169<br>1.065<br>.776<br>1.042<br>1.018<br>1.017<br>.857<br>1.059<br>.776<br>.856<br>.780<br>.883<br>.724<br>.820<br>.886<br>.865<br>.815<br>.818<br>.836<br>.732<br>.721<br>.733<br>.770<br>.696<br>.768 | .961<br>.928<br>.914<br>1.011<br>.968<br>1.102<br>.764<br>.896<br>1.137<br>1.052<br>.869<br>1.142<br>.888<br>.909<br>.832<br>.874<br>.752<br>.910<br>.976<br>.946<br>.865<br>.872<br>.916<br>.835<br>.874<br>.811<br>.673<br>.842<br>.874 |
| 1877<br>1878<br>1879   | 3,079.6<br>1,301.6<br>704.6  | 9,741,327<br>9,448,044<br>3,978,165<br>2,024,841   | 31 13 7  | 23<br>11<br>2  | 208,370<br>97,061<br>40,585<br>20,992  | 150,470<br>80,270<br>43,100<br>3,000  | .810<br>.742<br>.846<br>.286   | .723<br>.827<br>I.062<br>I.429  |
|  | 568,940.6  | \$2,117,444,204  | 7,948  | 6,739  | \$30,618,775   | \$27,369,920  | .848   | .894  |

# TABLE X.

Experience of The Mutual Benefit Life Insurance Company to December 31, 1877, on Paid-up Policies for Reduced Amounts allowed in exchange for Policies Discontinued.

| ۰ |   |  |  | Probable<br>Deaths,<br>American<br>Experience.   | ACTUAL<br>DEATHS.   | Probable<br>Loss,<br>American<br>Experience.  |   | RATIO.  |   |  |
|---|---|--|--|--|---|---|---|---|---|--|
|   | YEAR OF<br>MEMBER-<br>SHIP.   | YEARS OF LIFE.   | Amount<br>Insured.   |  |   |   | ACTUAL<br>Loss.   | ACTUAL<br>TO<br>PROBABLE<br>DEATHS.   | ACTUAL<br>TO<br>PROBABLE<br>Loss.   |  |
|   | 2d 3d 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22d 23d 24th 25th 26th 27th 28th 29th 30th 31st 32d 33d | 681.8 2,011.6 2,983.6 3,650.4 4,118.1 4,497.9 4,675.8 4,691.7 4,374.7 3,671.8 3,095.4 2,395.0 1,649.3 573.9 258.4 187.9 168.3 120.6 73.5 53.4 53.0 52.5 50.6 55.1 61.1 68.8 65.9 64.2 57.8 44.5 31.7 2.0 | \$ 193,704<br>693,504<br>1,346,027<br>2,015,075<br>2,750,231<br>3,427,729<br>3,944,683<br>4,219,621<br>4,279,846<br>3,789,540<br>3,283,852<br>2,553,723<br>1,915,570<br>762,309<br>413,605<br>324,031<br>296,168<br>218,189<br>124,906<br>88,146<br>83,069<br>78,852<br>80,233<br>105,350<br>115,111<br>137,686<br>136,444<br>144,541<br>152,132<br>129,006<br>90,717<br>2,045 | 6.38 9.34 29.81 37.98 44.76 40.90 55.52 58.35 56.52 48.91 43.21 35.13 25.78 9.14 4.31 3.24 3.01 2.47 1.57 1.16 1.25 1.25 1.25 1.70 2.18 2.38 2.29 1.85 1.64 1.19 .10 | 4<br>8<br>15<br>21<br>35<br>30<br>41<br>41<br>41<br>35<br>33<br>24<br>17<br>5<br>2<br>2<br>2<br><br>2<br>4<br><br>3<br> | \$ 1,844<br>6,939<br>14,032<br>21,958<br>31,553<br>40,633<br>48,800<br>54,376<br>57,965<br>51,858<br>46,528<br>37,935<br>29,529<br>12,304<br>6,704<br>5,746<br>5,549<br>4,684<br>2,756<br>1,749<br>1,797<br>1,820<br>1,990<br>2,906<br>3,358<br>4,714<br>5,422<br>5,493<br>5,255<br>5,250<br>3,573<br>103 | \$ 625<br>4,450<br>17,105<br>13,228<br>28,508<br>39,683<br>51,858<br>43,719<br>53,320<br>31,757<br>46,690<br>37,245<br>16,240<br>5,700<br>3,200<br>5,300<br>1,460<br><br>2,770<br>3,620<br><br>1,280<br>875<br>6,600<br>10,500<br>9,425<br> | .626 .857 .503 .553 .782 .733 .738 .703 .726 .715 .764 .683 .659 .547 .463 .616 .664 I.27I I.60I 3.239 I.377 .840 I.309 I.625 I.829 | .339<br>.641<br>1.219<br>.602<br>.903<br>.977<br>1.063<br>.804<br>.920<br>.612<br>1.003<br>.982<br>.550<br>.463<br>.477<br>.922<br>.263<br><br>2.104<br><br>1.522<br>1.819<br><br>1.98<br>1.795<br> |  |
|   | Totals.   | 44,540.3   | \$37,895,645   | 536.11   | 378   | \$525,123   | \$440,958   | .705  | .840  |  |

## TABLE XI.

Experience of The Mutual Benefit Life Insurance Company to December 31, 1877, on Paid-up Policies for Reduced Amounts allowed in exchange for Policies Discontinued, on which three or more years' Premiums had been paid.

| YEAR OF   | YEARS OF<br>LIFE.  | Amount<br>Insured.  | PROBABLE DEATHS, AMERICAN EXPERIENCE.   | ACTUAL DEATHS.   | Probable Loss,   |  | RA'  | TIO.   |
|---|--|---|---|--|--|--|--|--|
| MEMBER-<br>SHIP.  |  |   |   |  | AMERICAN EXPERIENCE.   | ACTUAL Loss.   | ACTUAL<br>TO<br>PROBABLE<br>DEATHS.  | ACTUAL TO PROBABLE Loss.   |
| 4th 5th 6th 7th 8th 9th 1oth 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22d 23d 24th 25th 26th 27th 28th 29th 30th 31st 32d | 447.2 1,258.3 1,884.4 2,420.8 2,759.0 2,915.4 2,834.9 2,459.7 2,108.5 1,639.1 1,197.5 516.8 258.4 187.9 168.3 120.6 73.5 53.4 53.0 52.5 50.6 55.1 61.1 68.8 65.9 64.2 57.8 44.5 31.7 | \$ 327,098<br>1,059,625<br>1,848,638<br>2,587,229<br>3,150,496<br>3,461,368<br>3,622,475<br>3,238,546<br>2,832,932<br>2,245,136<br>1,735,288<br>740,009<br>413,605<br>324,031<br>296,168<br>218,189<br>124,906<br>88,146<br>83,069<br>78,852<br>80,233<br>105,350<br>115,111<br>137,686<br>136,444<br>144,541<br>152,132<br>129,006<br>90,717 | 4.80 13.82 21.64 28.98 34.74 38.51 38.76 34.31 30.59 24.87 19.17 8.25 4.31 3.24 3.01 2.47 1.57 1.16 1.25 1.25 1.24 1.55 1.70 2.18 2.38 2.29 1.85 1.64 | 2<br>10<br>19<br>19<br>30<br>34<br>34<br>28<br>32<br>20<br>13<br>4<br>2<br>2<br>2<br><br>2<br>4<br><br>3<br>3<br>3 | \$ 3,573<br>11,869<br>21,766<br>31,391<br>39,769<br>45,395<br>49,697<br>44,991<br>40,595<br>33,708<br>26,927<br>11,968<br>6,704<br>5,746<br>5,549<br>4,684<br>2,756<br>1,749<br>1,797<br>1,820<br>1,990<br>2,906<br>3,358<br>4,714<br>5,422<br>5,493<br>5,255<br>5,250 | \$ 1,700 9,825 20,658 35,625 42,358 37,552 50,670 29,790 46,570 34,695 14,640 5,300 3,200 5,300 1,460 5,800 2,770 3,620 1,280 875 6,600 10,500 9,425 | .417<br>.724<br>.878<br>.656<br>.863<br>.883<br>.877<br>.816<br>1.046<br>.804<br>.678<br>.485<br>.463<br>.616<br>.664<br><br>1.271<br><br>1.601<br>3.239<br><br>1.377<br>.840<br>1.309<br>1.625<br>1.829 | .476 .828 .949 I.135 I.065 .827 I.020 .662 I.147 I.029 .543 .443 .477 .922 .263 2.104 I.522 I.819 272 .161 I.201 I.998 I.795 |
| 33d   | 2.0  | 2,045   | 1.19  | • •  | 3,573  | • • • •  |  |  |
| Totals.   | 23,910.9   | \$29,569,071  | 332.82  | 273  | \$430,518  | \$380,213'   | .820   | .883   |

## TABLE XII.

Experience of The Mutual Benefit Life Insurance Company, from 1845 to 1874, on TERM POLICIES, arranged with reference to Current Age of the Insured.

|                  | YEARS OF<br>LIFE. | Amount<br>Insured. | ACTUAL<br>DEATHS. | PROBABLE<br>DEATHS,<br>AMERICAN<br>EXPERIENCE. | ACTUAL<br>Loss. | PROBABLE                   | RATIO.                      |                                   |
|------------------|-------------------|--------------------|-------------------|--|-----------------|----------------------------|-----------------------------|-----------------------------------|
| AGE AT EXPOSURE. |                   |                    |                   |  |                 | Loss, American Experience. | ACTUAL TO PROBABLE DEATIIS. | ACTUAL<br>TO<br>PROBABLE<br>Loss. |
| 14-20            | 118.5             | \$ 116,400         | 3                 | I.   | \$ 3,500        | \$ 903                     | 3.000                       | 3.876                             |
| 21-25            | 808.8             | 1,088,420          | 3 8               | 6.   | 5,900           | 8,694                      | 1.333                       | .679                              |
| 26-30            | 1,203.1           | 2,185,945          | 20                | 10.  | 42,400          | 18,117                     | 2.000                       | 2.340                             |
| 31-35            | 1,285.9           | 3,037,650          | 13                | II.  | 24,500          | 26,506                     | 1.182                       | .924                              |
| 36-40            | 1,182.8           | 3,196,040          | 10                | II.  | 24,700          | 30,134                     | .909                        | .820                              |
| 41-45            | 933.9             | 2,588,785          | 18                | II.  | 38,300          | 27,238                     | 1.636                       | 1.406                             |
| 46-50            | 748.0             | 2,162,260          | 16                | 9.   | 48,300          | 27,132                     | 1.778                       | 1.780                             |
| 51-55            | 452.0             | 1,304,750          | 8                 | 7.   | 28,000          | 21,192                     | 1.143                       | 1.321                             |
| 56–60            | 144.0             | 451,950            | I                 | 3.   | 1,000           | 10,150                     | .333                        | .099                              |
| 61–67            | 30.1              | 97,400             | 2                 | Ι.   | 5,400           | 3,178                      | 2.000                       | 1.699                             |
| Totals.          | 6,907.1           | \$16,229,600       | 99                | 70.  | \$222,000       | \$173,244                  | 1.414                       | 1.281                             |

## TABLE XIII.

Experience of The Mutual Benefit Life Insurance Company, from 1845 to 1874, on TERM POLICIES, arranged with reference to Years of Membership.

|                             | YEARS OF<br>LIFE. | Amount<br>Insured. | ACTUAL DEATHS. | PROBABLE DEATHS, AMERICAN EXPERIENCE. |              | PROBABLE                   | RATIO.                              |                                   |
|-----------------------------|-------------------|--------------------|----------------|---------------------------------------|--------------|----------------------------|-------------------------------------|-----------------------------------|
| YEAR OF<br>MEMBER-<br>SHIP. |                   |                    |                |                                       | ACTUAL Loss. | Loss, American Experience. | ACTUAL<br>TO<br>PROBABLE<br>DEATHS. | ACTUAL<br>TO<br>PROBABLE<br>Loss. |
| ıst                         | 2,266.3           | \$ 5,115,425       | 29             | 22                                    | \$ 45,300    | \$ 51,576                  | 1.318                               | .878                              |
| 2d                          | 1,402.4           | 3,170,335          | 27             | 14                                    | 50,100       | 32,366                     | 1.929                               | 1.548                             |
| 3d                          | 1,010.7           | 2,357,000          | I 2            | 10                                    | 38,700       | 24,863                     | 1.200                               | 1.557                             |
| 4th                         | 731.8             | 1,810,260          | II             | 8                                     | 30,600       | 19,959                     | 1.375                               | 1.533                             |
| 5th                         | 596.7             | 1,497,310          | 8              | 6                                     | 21,500       | 17,082                     | 1.333                               | 1.259                             |
| 6th                         | 493.9             | 1,234,810          | 8              | 5                                     | 24,300       | 14,395                     | 1.600                               | 1.688                             |
| 7th                         | 405.3             | 1,044,460          | 4              | 5                                     | 11,500       | 13,003                     | .800                                | .884                              |
| Totals.                     | 6,907.1           | \$16,229,600       | 99             | 70                                    | \$222,000    | \$173,244                  | 1.414                               | 1.281                             |

TABLE XIV.

Actual and Probable Mortality of The Mutual Benefit Life Insurance Company during each Year from 1845 to 1879, inclusive.

|  |  | AMOUNT INSURED.   |   |   |   |  | RA  | IIO.   |
|--|--|---|---|---|---|--|---|--|
| YEAR.  | YEARS OF<br>LIFE.  |   | PROBABLE DEATHS, AMERICAN EXPERIENCE.   | ACTUAL DEATHS.  | Probable<br>Loss,<br>American<br>Experience.  | ACTUAL LOSS.   | ACTUAL TO PROB- ABLE DEATHS.  | ACTUAL<br>TO<br>PROB-<br>ABLE<br>LOSS.   |
| 1845<br>1846<br>1847<br>1848<br>1849<br>1850<br>1851<br>1852<br>1853<br>1854<br>1855<br>1856<br>1857<br>1858<br>1859<br>1860<br>1861<br>1862<br>1863<br>1864<br>1865<br>1866<br>1867<br>1868<br>1869<br>1870<br>1871<br>1872<br>1873<br>1874 | 1,700.4 3,171.4 4,083.5 4,850.8 4,963.9 4,908.7 4,689.0 4,599.2 4,617.5 4,547.6 4,583.5 4,720.4 4,906.0 5,590.8 6,381.4 6,615.0 6,631.1 8,151.3 12,341.0 17,437.6 21,784.9 24,559.0 27,509.1 30,270.2 31,670.0 32,206.4 32,977.7 33,593.3 34,233.5 | \$ 575,485<br>5,405,345<br>9,651,190<br>12,409,500<br>14,123,630<br>14,885,015<br>15,271,155<br>15,043,985<br>15,160,190<br>15,626,630<br>15,689,030<br>16,244,930<br>17,115,960<br>17,966,225<br>20,611,175<br>23,796,615<br>24,640,390<br>24,409,012<br>30,241,375<br>45,042,480<br>63,978,710<br>83,302,355<br>95,987,970<br>110,951,138<br>125,303,107<br>130,287,476<br>130,069,358<br>130,756,650<br>131,296,470<br>129,904,230 | 1.62<br>17.51<br>32.74<br>42.54<br>50.62<br>52.85<br>53.62<br>52.90<br>53.32<br>54.81<br>55.59<br>57.44<br>60.48<br>64.06<br>72.46<br>82.22<br>86.74<br>87.90<br>106.58<br>153.86<br>213.03<br>265.94<br>305.15<br>348.15<br>390.30<br>420.48<br>439.55<br>461.90<br>482.58<br>503.89 | 1<br>17<br>26<br>34<br>79<br>59<br>55<br>61<br>39<br>53<br>59<br>48<br>72<br>62<br>57<br>64<br>84<br>68<br>102<br>155<br>172<br>206<br>226<br>227<br>313<br>342<br>357<br>424<br>414<br>427 | \$ 5,740<br>54,939<br>99,375<br>129,477<br>148,981<br>159,792<br>167,310<br>169,630<br>174,926<br>183,650<br>188,940<br>200,025<br>214,504<br>228,290<br>261,772<br>300,173<br>315,842<br>316,736<br>388,582<br>557,051<br>781,526<br>1,018,446<br>1,201,410<br>1,419,983<br>1,646,130<br>1,776,877<br>1,841,871<br>1,910,866<br>1,974,881<br>2,019,463 | \$ 5,000 42,768 68,700 115,050 207,350 151,000 147,900 180,000 118,400 175,300 207,000 150,500 243,015 224,600 199,250 272,000 327,460 237,000 333,900 541,130 605,675 838,700 870,350 1,264,125 1,310,500 1,517,700 1,702,079 2,017,528 1,710,165 1,895,802 | .616 .971 .794 .799 1.561 1.116 1.026 1.153 .731 .967 1.061 .836 1.190 .968 .787 .778 .968 .774 .957 1.008 .807 .775 .741 .824 .802 .813 .812 .918 .858 | .871<br>.778<br>.691<br>.889<br>1.392<br>.945<br>.884<br>1.061<br>.677<br>.955<br>1.096<br>.752<br>1.133<br>.984<br>.761<br>.906<br>1.037<br>.748<br>.859<br>.971<br>.775<br>.824<br>.724<br>.890<br>.796<br>.854<br>.925<br>1.056<br>.866<br>.939 |
| 1875<br>1876<br>1877<br>1878<br>1879   | 35,718.1<br>36,816.9<br>36,501.7<br>35,896.8<br>35,551.8   | 132,130,690<br>132,603,102<br>128,224,456<br>121,642,483<br>117,096,692   | 535.74<br>564.36<br>579.10<br>591.52<br>606.34  | 480<br>470<br>457<br>500<br>469   | 2,104,229<br>2,167,682<br>2,175,898<br>2,155,195<br>2,158,583   | 1,923,414<br>2,104,103<br>1,767,817<br>1,993,832<br>1,900,807  | .896<br>.833<br>.789<br>.845<br>.773  | .914<br>.971<br>.812<br>.925<br>.881   |
| Totals.  | 568,940.6  | \$2,117,444,204   | 7,947.89  | 6,739   | \$30,618,775  | \$27,369,920   | .848  | .894   |

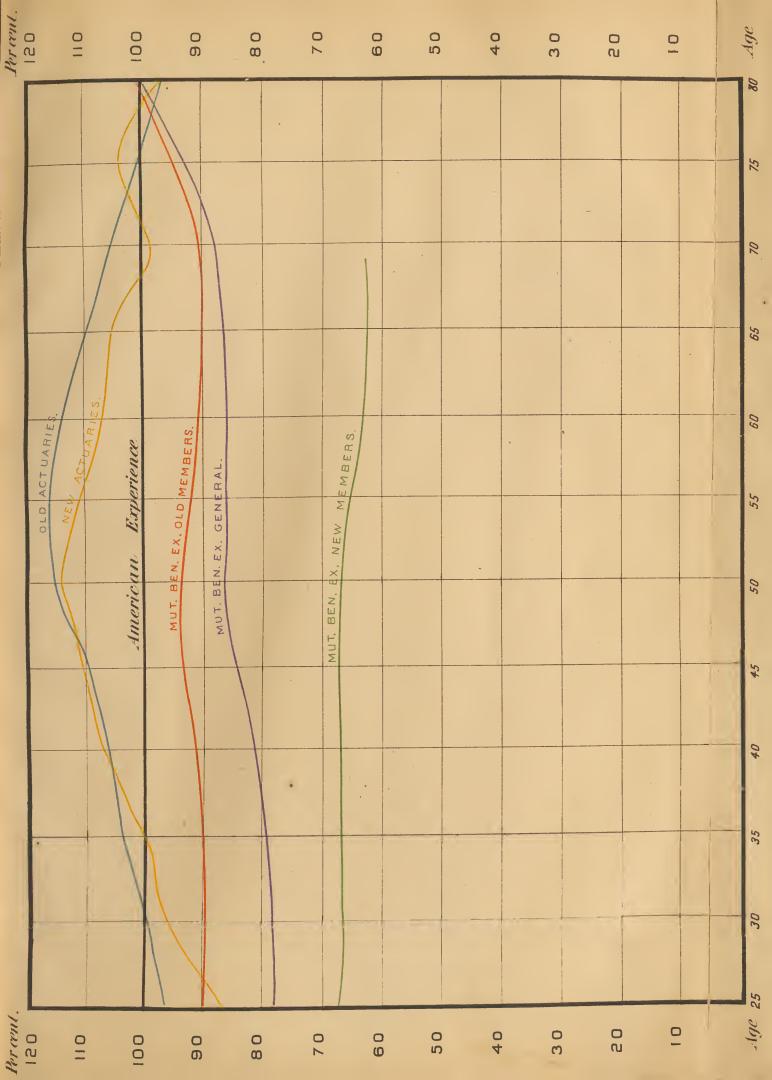
## THE CHARTS

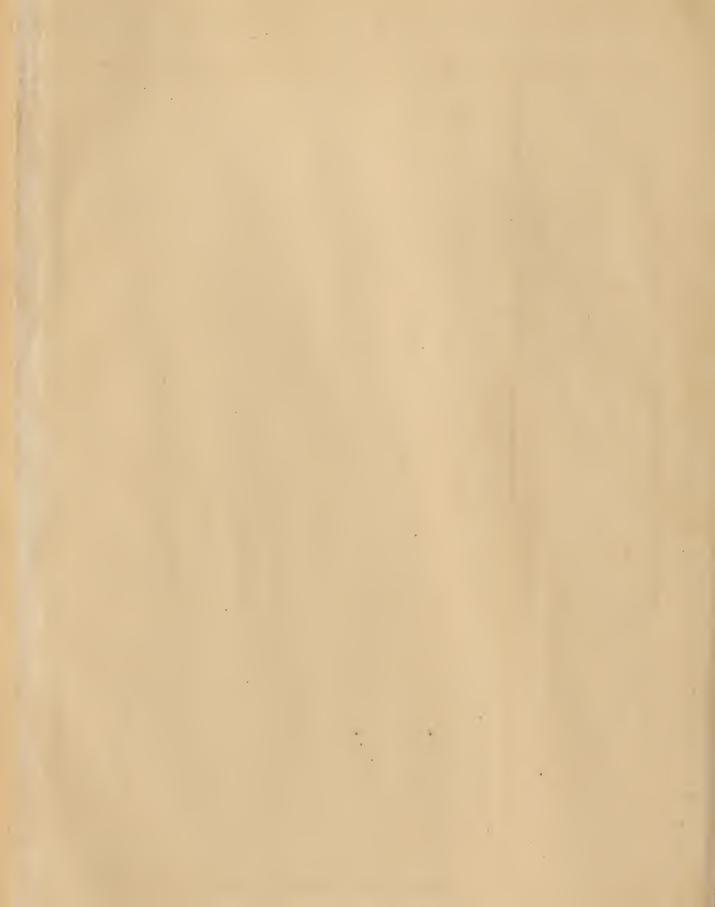
ON THE FOLLOWING PAGES WILL PRESENT TO THE EYE THE MOST IMPORTANT FEATURES OF THE FOREGOING TABLES.

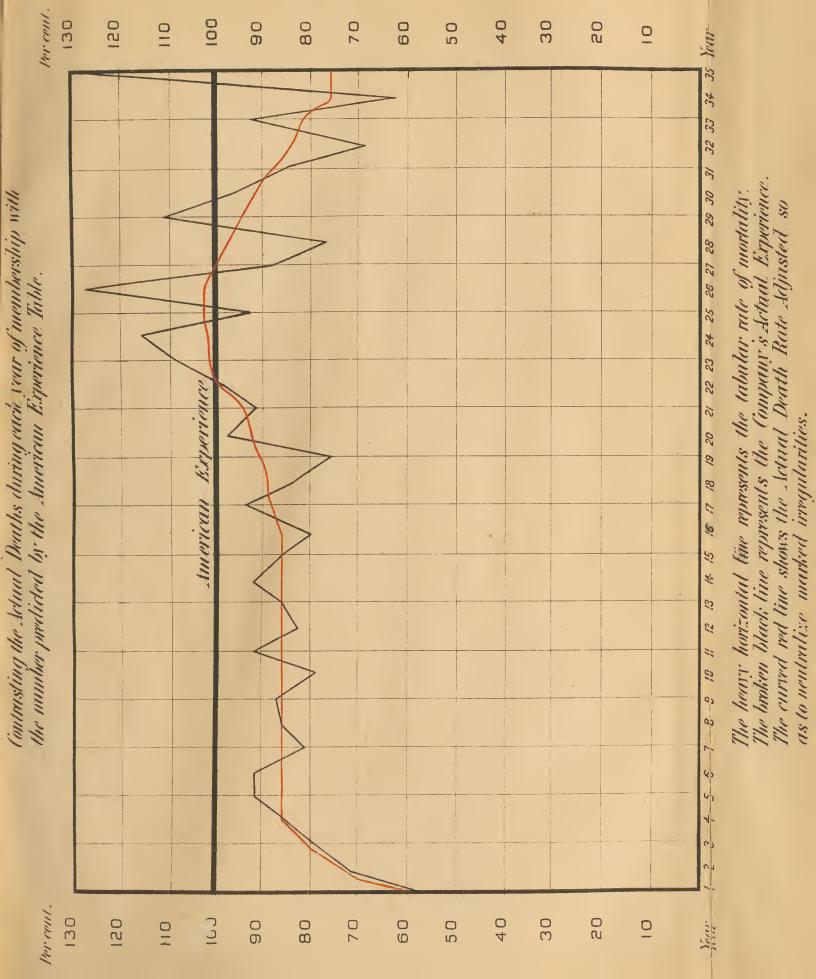
Chart A exhibits the relation between the death-rates at different ages as shown by the several columns of Table VI. The American Experience Table is taken as the standard for comparison, and is represented by the horizontal line marked 100 per cent.

The position of the colored lines above or below the standard line indicates the degree of variation from the standard and from each other. The Purple line represents The Mutual Benefit's General Experience, without regard to years of mem-

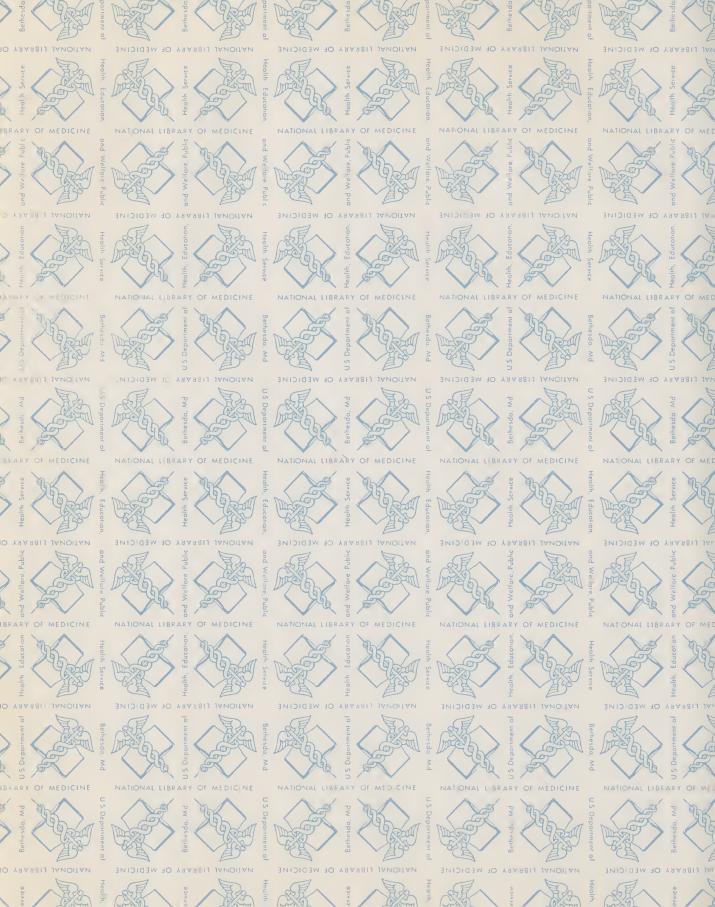
The Green line represents the Company's Experience on young Policies, the statistics being limited to the 1st and 2d years of membership. The Red line represents the Company's Experience on old business, the 1st 15 years of membership being excluded, the observations being restricted between the 16th and 35th years of membership.

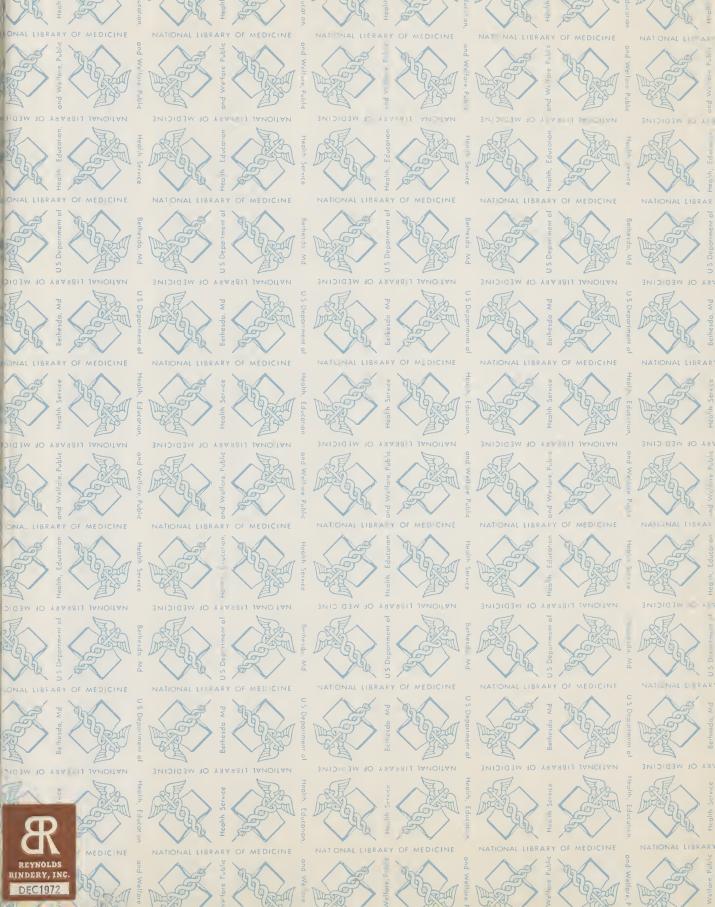












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